



imageRUNNER

1 6 7 0 F / 1 6 3 0 / 1 6 1 0

Printer Guide

IMPORTANT:

Read this manual carefully.

Use this manual when you need quick reference help for the printer feature of your machine.

Manuals for the Machine

Your machine includes the following documentation. This documentation has been designed so that you can easily use your machine to suit your particular needs.

Setting up the machine.....

Setting up paper

Quick guide for making copies.....

Quick guide for sending faxes

Installing the CAPT software.....



Quick Start Guide

Document and paper handling.....

Making copies

Maintenance.....

Troubleshooting feed and copy issues.....



Reference Guide

Sending and receiving faxes

Speed dialing.....

Troubleshooting fax issues.....



Facsimile Guide

Printing with CAPT

Checking the Status of a Print Job

Troubleshooting CAPT issues



Printer Guide

- The 1510 model is not supported by CAPT in USA.



How This Manual Is Organized

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Before You Start

Chapter 2

Installing Canon Advanced Printing Technology (CAPT)

Chapter 3

Printer Properties

Chapter 4

Checking the Status of a Print Job

Chapter 5

Troubleshooting

Chapter 6

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How to Use This Manual


■ Symbols Used in This Manual

Please read the list below of symbols, terms, and abbreviations used in this guide.

 **Indicates a warning concerning operations that may lead to death or injury to persons if not performed correctly. In order to use the machine safely, always pay attention to these warnings.**

 **Indicates a caution concerning operations that may lead to injury to persons or damage to property if not performed correctly. In order to use the machine safely, always pay attention to these cautions.**

 **Indicates an operational warning or restriction. Be certain to read these items to operate the machine correctly, and to avoid damage to the machine.**

 **Indicates a note for operation or an additional explanation. Reading these is highly recommended.**

■ References and Cross-References

(→ p. n-nn)	A number preceded by an arrow and enclosed in parenthesis refers to a page number in this guide which contains more information on the topic of the previous sentence.
→ <i>Quick Start Guide</i>	Refer to the <i>Quick Start Guide</i> for details on the topic of the previous sentence.
→ <i>Reference Guide</i>	Refer to the <i>Reference Guide</i> for details on the topic of the previous sentence.
machine	The word “machine” refers to imageRUNNER 1670F/1630/1610 models.
default	A setting that remains in effect unless you change it.

Your new machine has many advanced features, including CAPT (Canon Advanced Printing Technology). CAPT gives you instant access to printer information. In this documentation, CAPT is also referred to as the Canon iR1510-1670, as this appears on your screen after it has been installed.


■ Keys Used in This Manual

A button is referred to as follows in this manual:

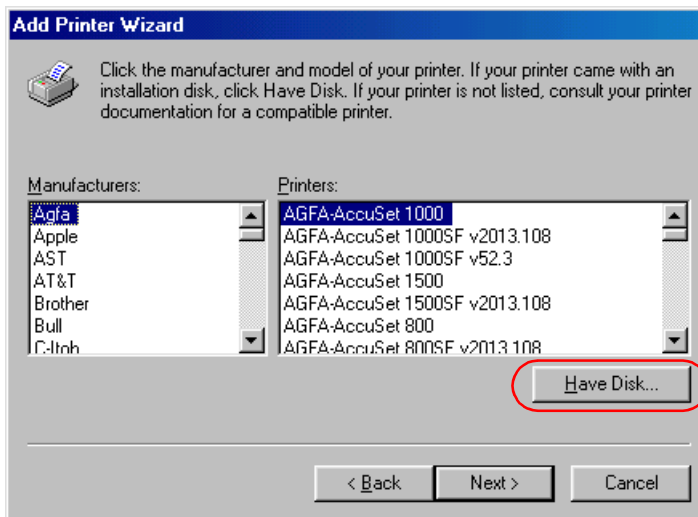
A button on the screen**Finish**

■ Displays Used in This Manual

Screenshots of computer operation screens used in this manual may differ from the ones you actually see, depending on the model or options that come with your machine.

The keys or buttons which you should press are marked with , as shown below. When multiple buttons or keys can be pressed, they will be highlighted and mentioned in the order in which they should be pressed.

4 The Wizard displays a list of available printers. Click **Have Disk**.



Click this button
for operation

■ Abbreviations Used in This Manual

In this manual, product names and model names are abbreviated as follows:

Microsoft® Windows® 95 operating system:	Windows 95
Microsoft® Windows® 98 operating system:	Windows 98
Microsoft® Windows® Millennium Edition operating system:	Windows Me
Microsoft® Windows NT® 4.0 operating system:	Windows NT
Microsoft® Windows® 2000 operating system:	Windows 2000
Microsoft® Windows® XP operating system:	Windows XP
Microsoft® Windows® Server 2003® operating system:	Windows Server 2003
Microsoft® Windows® operating system:	Windows

1

CHAPTER

Before You Start

This chapter provides an explanation of the system environments required for using CAPT (Canon Advanced Printing Technology). It also explains where to find help and information regarding the installation and use of this software.

Introduction	1-2
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Introduction

CAPT (Canon Advanced Printing Technology) gives users of Microsoft Windows 95, Windows 98, Windows Millennium Edition, Windows NT, Windows 2000, Windows XP, or Windows Server 2003 (hereafter called Windows 95/98/Me/NT/2000/XP/Server 2003) operating systems the ability to make full use of the printer. CAPT enables you to print from any Windows application to your machine.

You can acquire information about Canon products and update your software on the Canon internet home page (<http://www.usa.canon.com>).

System Requirements

The printer driver for Windows 95/98/Me/NT/2000/XP/Server 2003 can be used in the following system environments:

Operating System Software

Microsoft Windows 95, Microsoft Windows 98, Microsoft Windows Me, Microsoft Windows NT, Microsoft Windows 2000, Microsoft Windows XP (x86 architecture), or Windows Server 2003.

Computer

Any computer on which Microsoft Windows 95, Microsoft Windows 98, Microsoft Windows Me, Microsoft Windows NT, Microsoft Windows 2000, Microsoft Windows XP, or Windows Server 2003 runs properly (→ *Quick Start Guide*).


Where to Find Help

Here's where to get immediate help if you are having problems installing or using the software.

README.TXT file

Any hints, enhancements, limitations, and restrictions you need to be aware of when installing and using your printer driver are included in the README.TXT file provided with the software. The README.TXT file is located in the /English/ folder of the software CD-ROM.

Online Help

You can locate additional help for questions you may have regarding your printer in the Online Help file provided with the software. In the printer's **Properties** dialog box, you can click **Help** to display additional information about every feature and option in the CAPT. You can also click  (Help) in the upper right corner of most dialog boxes, and then click a specific item in the dialog box for help with that item; or right-click a specific item and choose **Help** to access the same help information for the item. See the Online Help for detailed information on specifying CAPT options.

Canon Authorized Dealers or Service Providers

If the Online Help file does not provide the information you need, contact your local authorized Canon dealer or authorized Canon service provider.

Installing Canon Advanced Printing Technology (CAPT)

2

CHAPTER

This chapter describes CAPT (Canon Advanced Printing Technology). It includes the following information:

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What is CAPT ?

Canon Advanced Printing Technology (CAPT)

This is a software that extends the power of the Windows operating system to a printer to speed up and simplify printing. Canon Advanced Printing Technology provides more printing control and bidirectional communication between the printer and a computer running a Windows application.

Installing CAPT

If you are using the imageRUNNER 1670F/1630/1610 machine as a local printer (connected directly to your computer), use the following steps.

If the imageRUNNER 1670F/1630/1610 is already on your network, and you want to start using it, follow the steps in “Connecting to the imageRUNNER 1670F/1630/1610 Already on Your Network,” on page 2-38.

If you want to install the imageRUNNER 1670F/1630/1610 as a network printer, follow the steps in “**Connecting the imageRUNNER 1670F/1630/1610 as a Network Printer**,” on page 2-42.



If there are any printer drivers of previous versions installed on your computer, be sure to delete those drivers from your computer before installing the Canon iR1510-1670 driver.

Windows 95/98/Me

For installation instructions using the CD-ROM menu, please refer to the *Quick Start Guide*.

USB Users

Windows 98/Me Plug and Play

The following is the installation procedure of Plug and Play using a USB port, under Windows 98.

Before you install the software, make sure you do the following:

- Connect the machine to your computer (→ *Quick Start Guide*).
- Turn on the machine (→ *Quick Start Guide*).
- Start up Windows 98/Me.

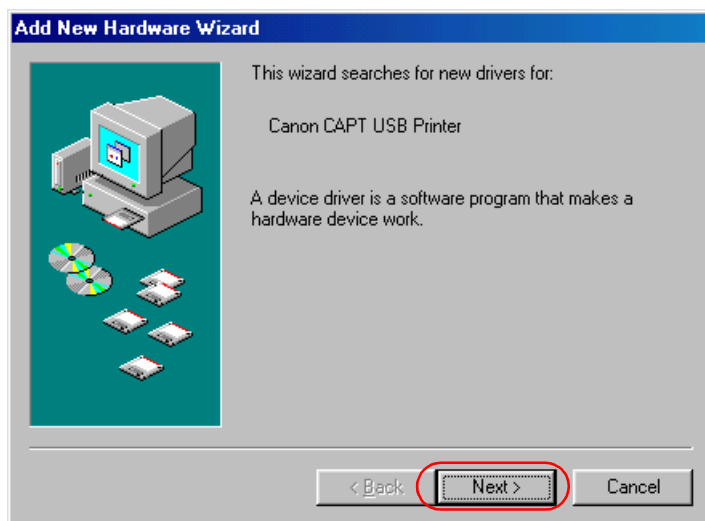


NOTE

Using a USB Port (USB Cable)

- In order to use the printer via USB, your computer must be equipped with a USB port.
- If the USB class driver is already installed in your computer, proceed to step8.
- USB is not available for Windows 95.

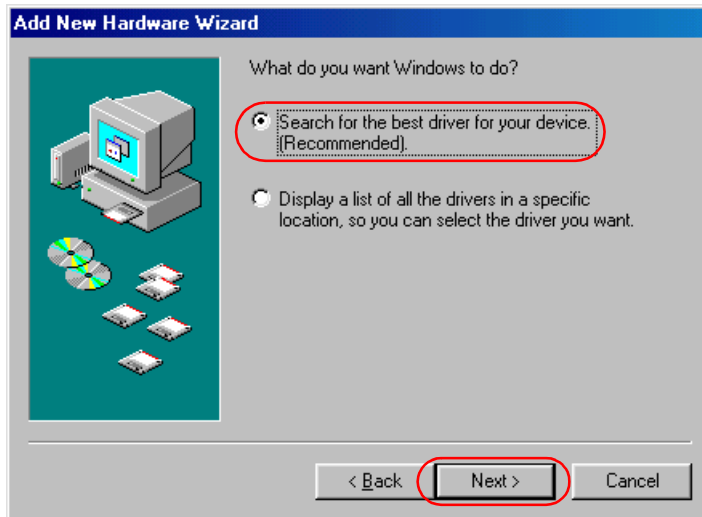
- 1 **Plug and Play** is being carried out and the **Add New Hardware Wizard** dialog box appears. Click **Next**.



NOTE

“Unknown” may be displayed as the name of the device.

- 2 Select **Search for the best driver for your device (Recommended)** in the **Add New Hardware Wizard** → click **Next**.



- 3 Place the CD-ROM into the CD-ROM drive.

- 4 Select **Specify a location** → click **Browse** to select the driver in the language that you want to install. For example, if your CD-ROM drive is drive “D:”, browse to “D:\English\Win9x(WinMe)” → click **OK** → **Next**.

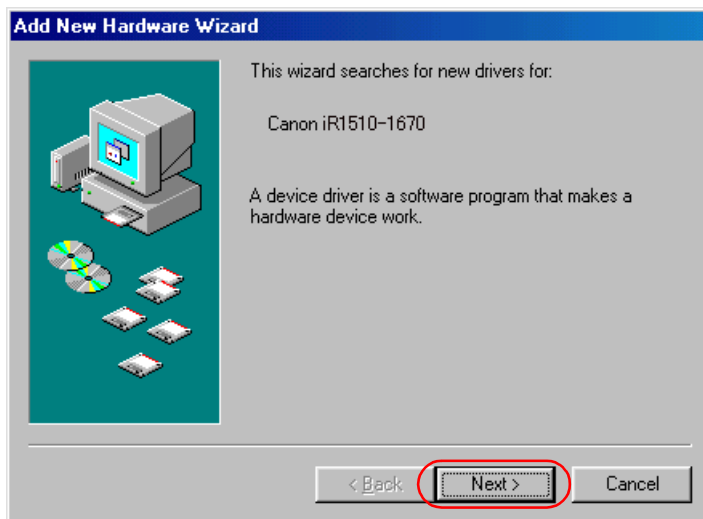


- 5 Click **Next** on **Windows driver files search for the device**.

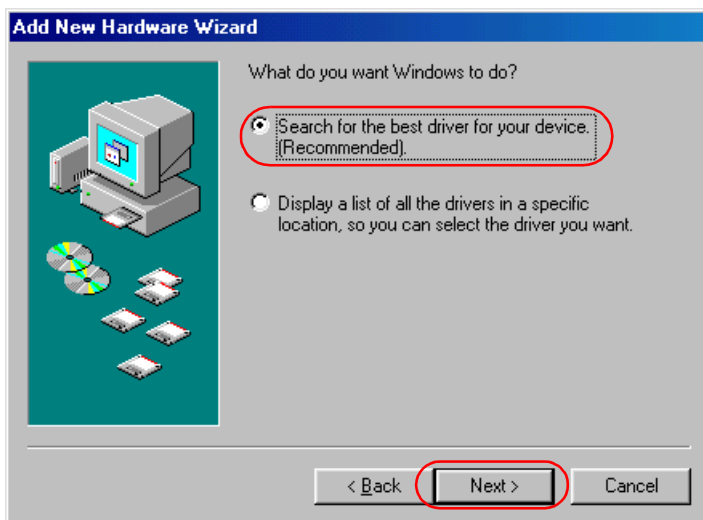


6 Enter the printer name you wish to use → click **Finish**.

7 The **Add New Hardware Wizard (Canon iR1510-1670)** appears. Click **Next**.

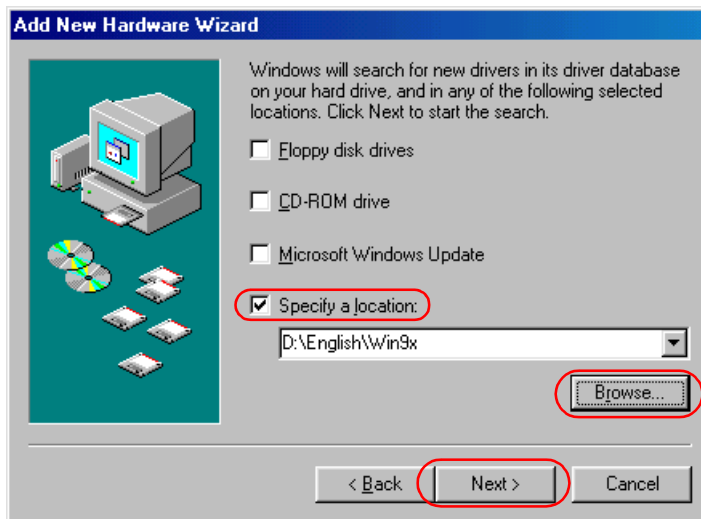


8 Select **Search for the best driver for your device (Recommended)** in the Add New Hardware Wizard → click **Next**.



- 9 Click only **Specify a location** and **Browse** to select the driver in the language that you want to install. For example, if your CD-ROM drive is drive “D:”, browse to “D:\English\Win9x” and click **OK**.

Confirm that the folder to browse is selected under **Specify a location**, then click **Next**.

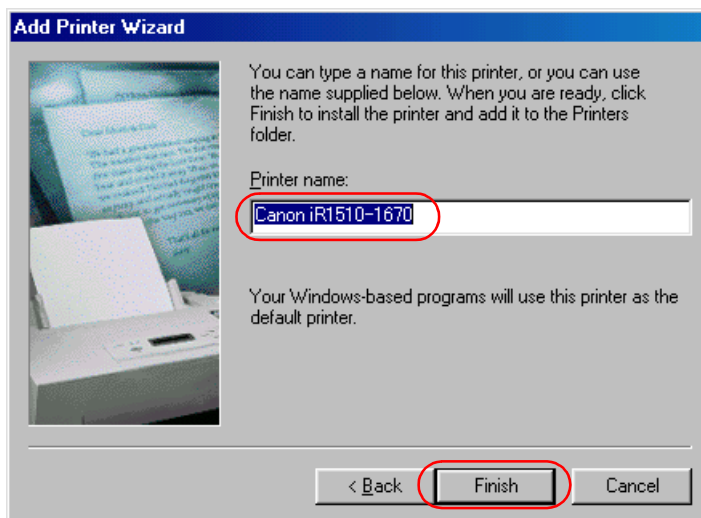


For Windows Me, select **Specify the location of the driver (Advanced)** as D:\English\Win Me→ click **Next** in the **Add New Hardware Wizard**.

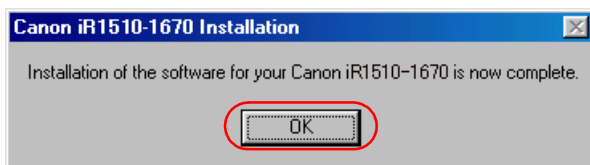
Click only **Specify the location** then click **Browse** to select the driver you want to install. For example, if your CD-ROM drive is drive “D:”, browse to “D:\English\Win9x(WinMe)” and click **OK**.

- 10 The screen displays the selected driver file. Click **Next**.

- 11 Enter the name you wish to use, then click **Finish**.



- 12** When the installation is complete, the following dialog box appears.
To close the dialog box, click **OK**. Click **Finish** on the **Add New Hardware Wizard**.



■ Parallel Port Users



If other printer drivers are already installed on the parallel port (LPT 1, etc.) of the computer connected to this printer, uninstall those drivers, or select **FILE** in the port selection dialog to set them for file output, before installing Canon iR1510-1670.

Before you install the software, make sure you do the following:

- Connect the machine to your computer (→ *Quick Start Guide*).
- Turn on the machine (→ *Quick Start Guide*).
- Start up Windows 98/Me.

■ Windows 98/Me Plug and Play

The Plug and Play installation of the printer driver for a parallel port under Windows 98/Me follows the same procedure used in USB installation. Refer to the steps **7** to **12** in the procedure using a USB port (→ Page 2-5).

■ Add Printer Wizard

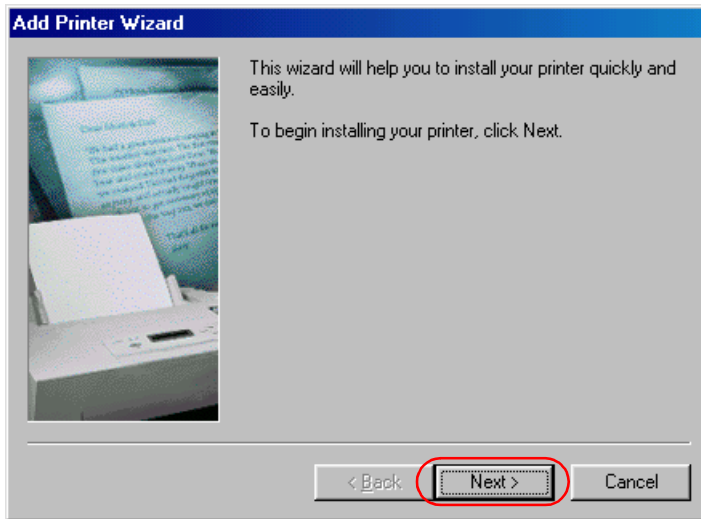
To install the CAPT on a local computer using Windows 95/98/Me, you can use the Windows 95/98/Me **Add Printer Wizard**.

The following is the installation procedure using a parallel port, under Windows 98.

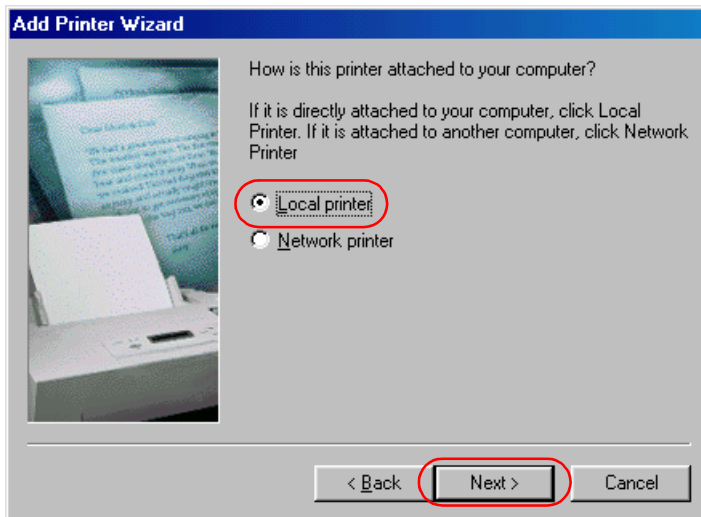
- 1** From the **Start** menu, select **Settings** → click **Printers**. The Printers folder appears.



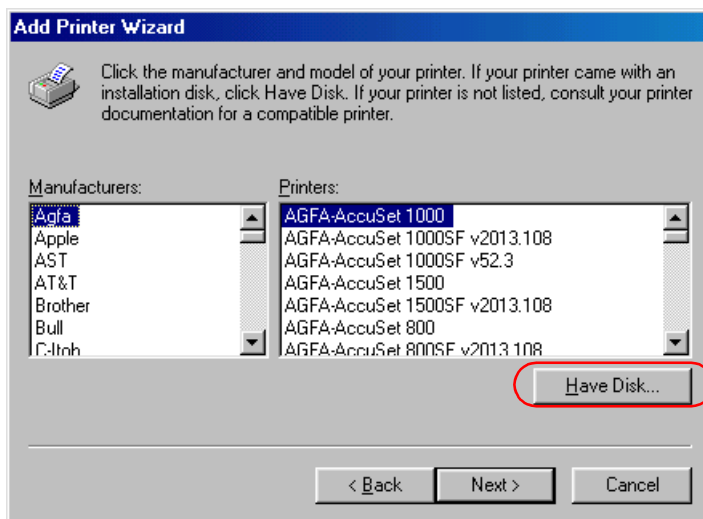
- 2 Double-click the **Add Printer** icon. The **Add Printer Wizard** dialog box appears. Click **Next**.



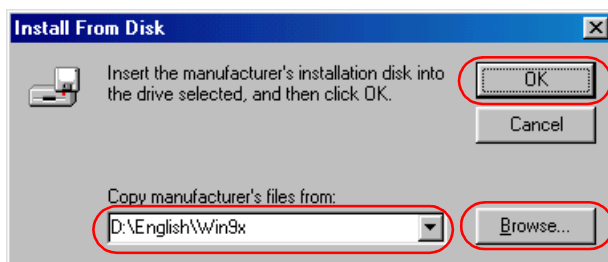
- 3 Select **Local printer** → click **Next**.



- 4 The Wizard displays a list of available printers. Click **Have Disk**.

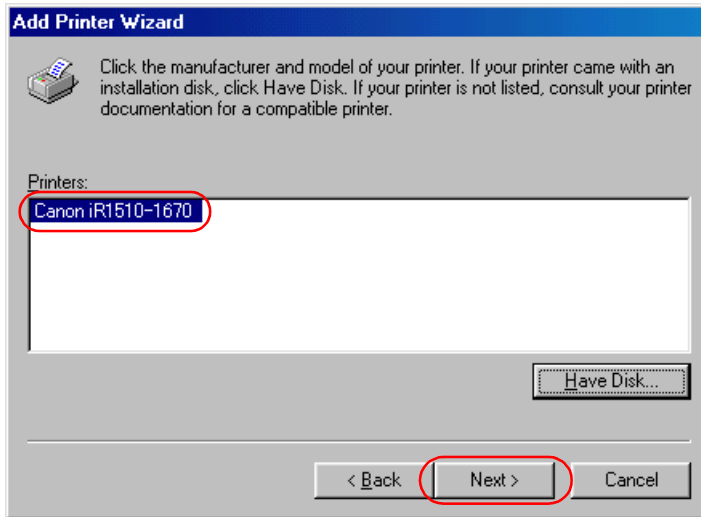


- 5 The **Install From Disk** dialog box appears. Place the CD-ROM into the CD-ROM drive. Use **Browse** to select the directory or enter the path name that contains the CAPT software → click **OK** → **OK**.

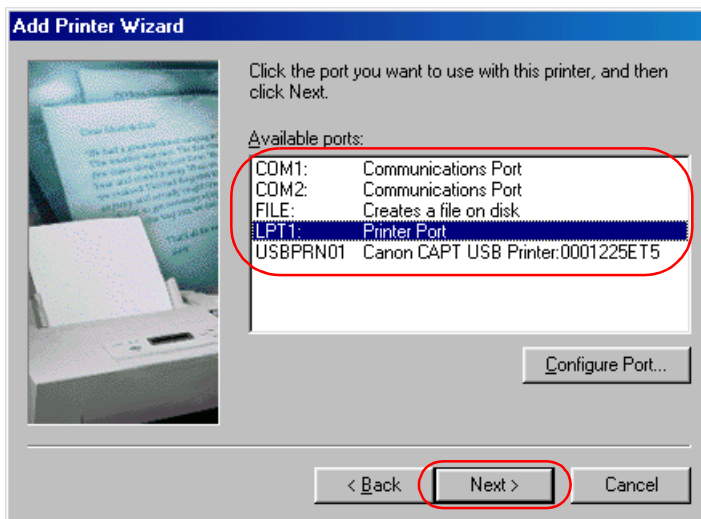


For example, if you are using the CD-ROM to install the CAPT software, and your CD-ROM drive is drive “D:”, the path name would be “D:\English\Win9x(WinMe)”.

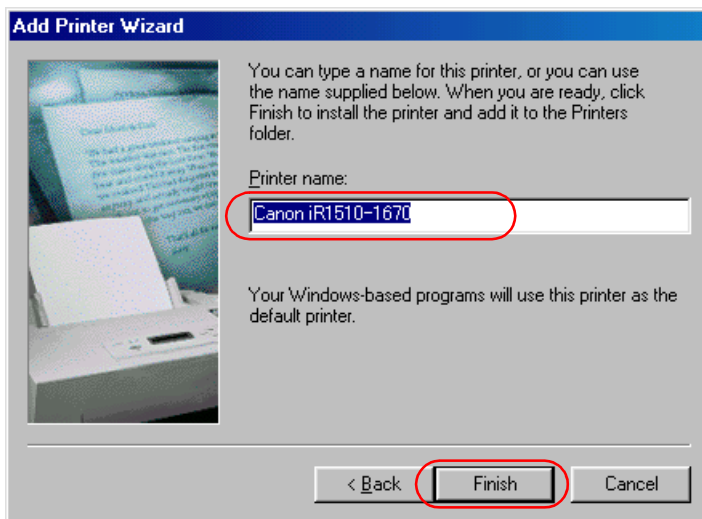
6 Select the printer → click **Next**.



7 Select the printer's port → click **Next**.



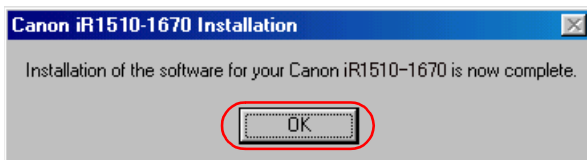
- 8 Enter the printer name you wish to use → click **Finish**.



NOTE

If you already have another printer installed, you will be asked whether to use this printer as the default.

- 9 When the installation is complete, the following dialog box appears. To close the dialog box, click **OK**.



■ USB Users

■ Windows 2000 Plug and Play

The following is the installation procedure of Plug and Play using a USB port, under Windows 2000.

Before you install the software, make sure you do the following:

- Connect the machine to your computer (→ *Quick Start Guide*).
- Turn on the machine (→ *Quick Start Guide*).
- Start up Windows 2000.



NOTE

Using a USB Port (USB Cable)

- In order to use the printer via USB, your computer must be equipped with a USB port.
- USB is not available for Windows NT.

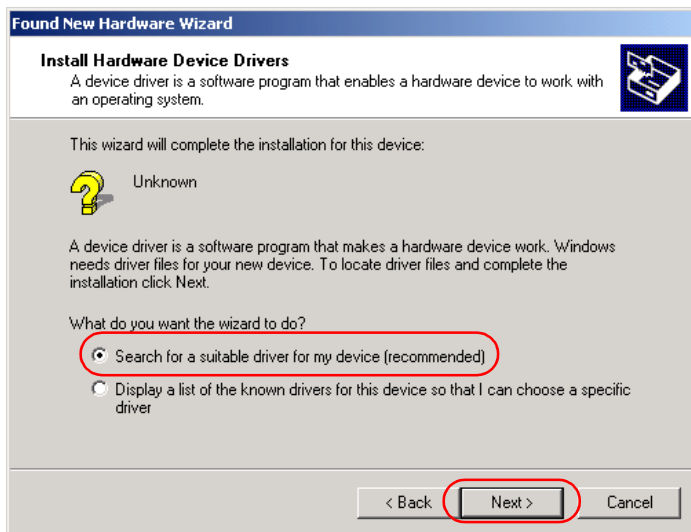
1 Log on as a member of Administrators. The full control access right for the printer is necessary for installation of CAPT.

2 **Plug and Play** is being carried out, and the USB class driver and USB printing support is automatically detected and installed.



3 The Found New Hardware Wizard dialog box appears. Click **Next**.

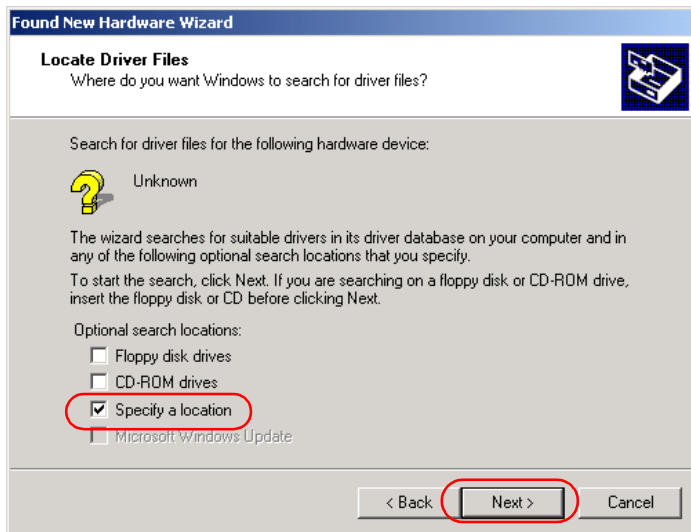
Select **Search for a suitable driver for my device (recommended)** in the Found New Hardware Wizard → click **Next**.



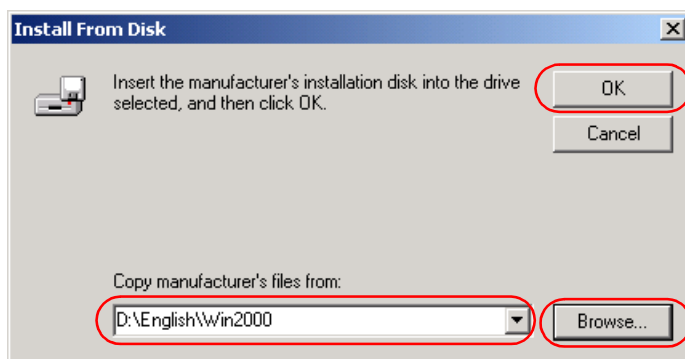
NOTE

“Unknown” may be displayed as the name of the device.

4 Select **Specify a location** → click **Next**.



- 5 The **Found New Hardware Wizard** dialog box appears. Place the CD-ROM into the CD-ROM drive. Click **Browse** to select the driver in the language that you want to install. For example, if your CD-ROM drive is drive “D:”, browse to “D:\English\Win2000” → click **Open** → **OK**.



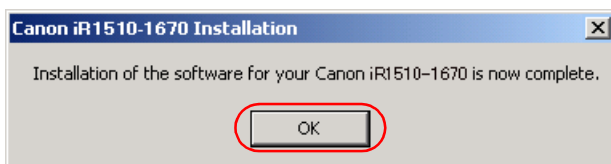
- 6 Click **Next** on **Driver Files Search Results**.



NOTE

- Click **Yes** if the **Digital Signature Not Found** dialog box appears.
- Click **Continue Anyway** if the **Hardware Installation** dialog box (saying that the software you are installing has not passed Windows Logo testing) appears.

- 7 When the installation is complete, the following dialog box appears. Click **OK** to close the dialog box. Click **Finish** on the **Found New Hardware Wizard**.



■ Windows XP/Server 2003 Plug and Play

The following is the installation procedure of Plug and Play using a USB port under Windows XP.

Before you install the software, make sure you do the following:

- Connect the machine to your computer (→ *Quick Start Guide*).
- Turn on the machine (→ *Quick Start Guide*).
- Start up Windows XP/Server 2003.

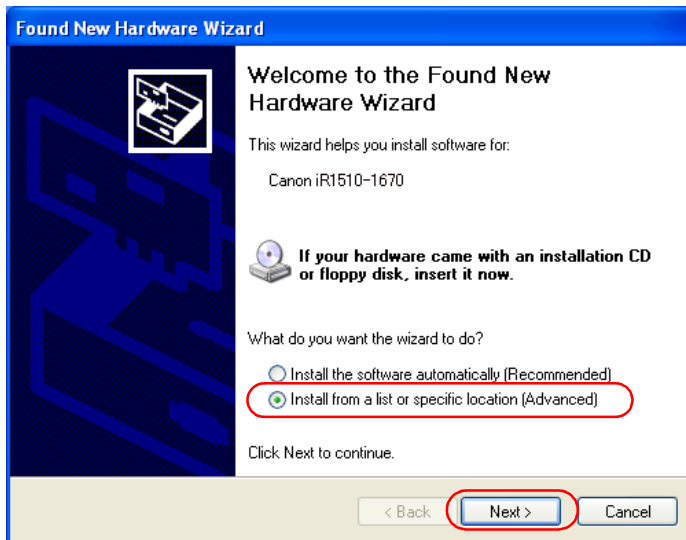


Using a USB Port (USB Cable)

NOTE

- In order to use the printer via USB, your computer must be equipped with a USB port.
- USB is not available for Windows NT.

- 1 Log on as a member of Administrators. The full control access right for the printer is necessary for installation of CAPT.
- 2 **Plug and Play** is being carried out, and the USB class driver and USB Printing Support is automatically detected and installed.
- 3 The Found New Hardware Wizard appears and prompts you to insert the CD-ROM. Select **Install from a list or specific location (Advanced)** and click **Next**.



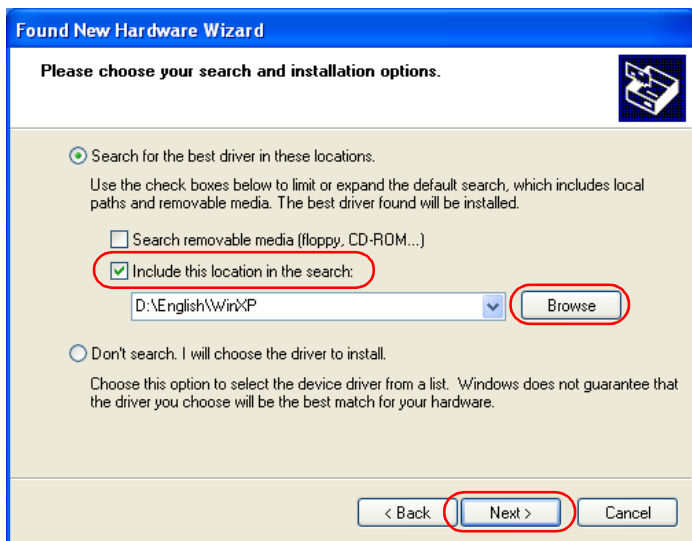
NOTE

“Unknown” may be displayed as the name of the device.

- 4 Uncheck the **Search removable media (floppy, CD-ROM...)** check box.

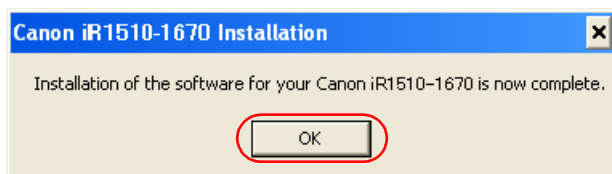


- 5** Select **Include this location in the search:** → click **Browse** to select the driver in the language that you want to install. For example, if your CD-ROM drive is drive “D:”, browse to “D:\English\WinXP” → click **Next**.



Click **Continue Anyway** if the **Hardware Installation** dialog box appears.

- 6** When the installation is complete, the following dialog box appears. Click **OK** to close the box. Click **Finish** on the **Found New Hardware Wizard**.



■ Parallel Port Users



If other printer drivers are already installed on the parallel port (LPT 1, etc.) of the computer connected to this printer, uninstall those drivers, or select FILE in the port selection dialog to set them for file output, before installing Canon iR1510-1670.

■ Windows 2000 Plug and Play

The following is the installation procedure of Plug and Play using a parallel port, under Windows 2000.

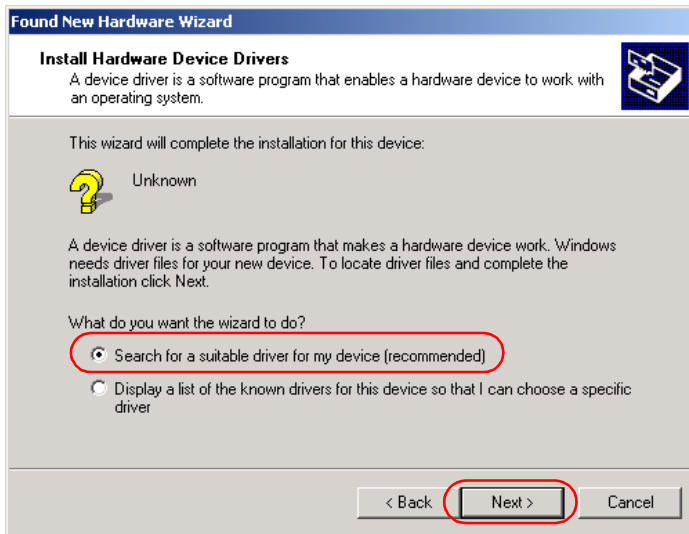
Before you install the software, make sure you do the following:

- Connect the machine to your computer (→ *Quick Start Guide*).
- Turn on the machine (→ *Quick Start Guide*).
- Start up Windows 2000.

1 Plug and Play is being carried out and the **Found New Hardware Wizard** dialog box appears. Click **Next**.



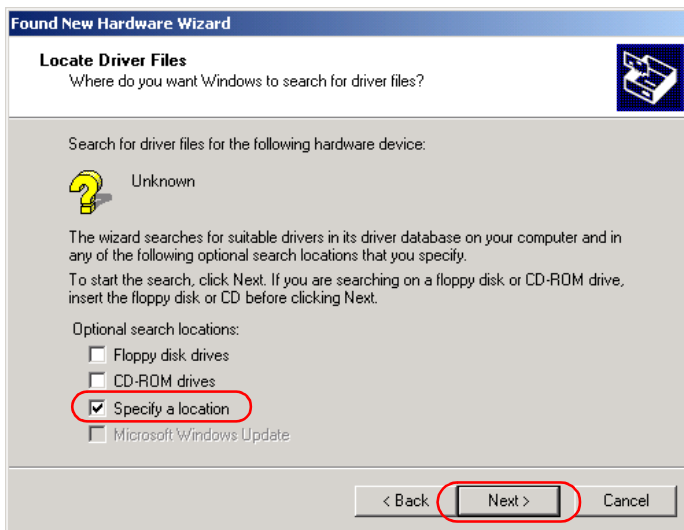
- 2** Select **Search for a suitable driver for my device (recommended)** in the **Found New Hardware Wizard** → click **Next**.



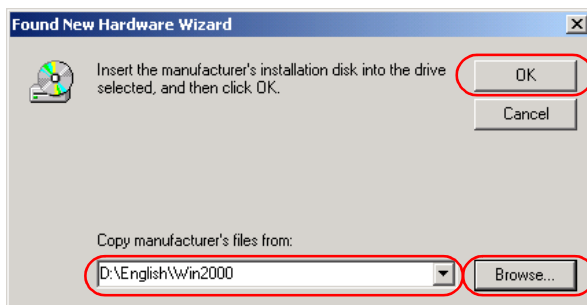
NOTE

“Unknown” may be displayed as the name of the device.

- 3** Select **Specify a location** → click **Next**.



- 4 The **Found New Hardware Wizard** dialog box appears. Place the CD-ROM into the CD-ROM drive. Click **Browse** to select the driver in the language that you want to install. For example, if your CD-ROM drive is drive “D:”, browse to “D:\English\Win2000” → click **Open** → **OK**.

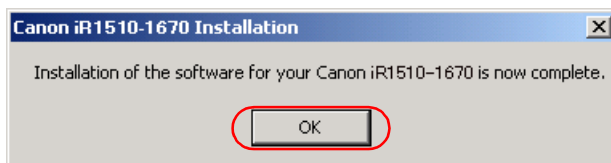


- 5 Click **Next** on **Driver Files Search Results**.



Click **Yes** if the **Digital Signature Not Found** dialog box appears.

- 6 When the installation is complete, the following dialog box appears. Click **OK** to close the dialog box. Click **Finish** on the **Found New Hardware Wizard**.



■ Windows XP/Server 2003 Plug and Play

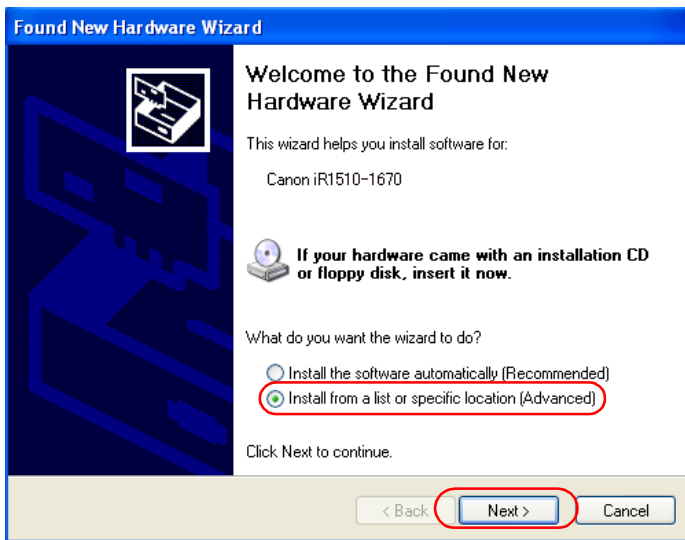
The following is the installation procedure of Plug and Play using a parallel port, under Windows XP.

Before you install the software, make sure you do the following:

- Connect the machine to your computer (→ *Quick Start Guide*).
- Turn on the printer (→ *Quick Start Guide*).
- Start up Windows XP/Server 2003.

1 **Plug and Play** is being carried out and the **Found New Hardware Wizard** dialog box appears.

Select **Install from a list or specific location (Advanced)** → click **Next**.

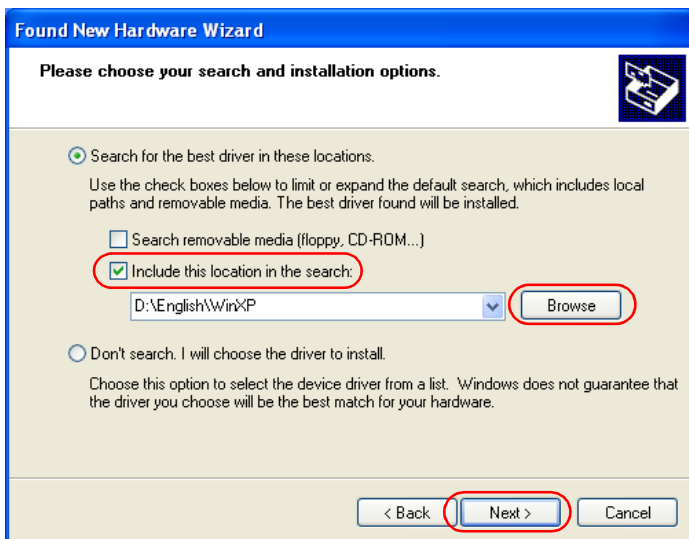


“Unknown” may be displayed as the name of the device.

2 Uncheck the **Search removable media (floppy, CD-ROM)** check box.

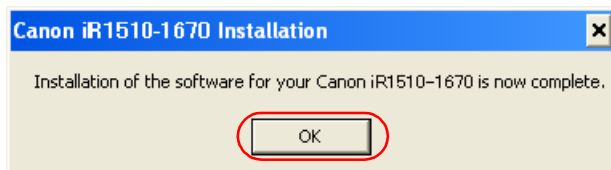


- 3** Select **Include this location in the search:** → click **Browse** to select the driver in the language that you want to install. For example, if your CD-ROM drive is drive “D:”, browse to “D:\English\WinXP” → click **Next**.



Click **Continue Anyway** if the **Hardware Installation** dialog box appears.

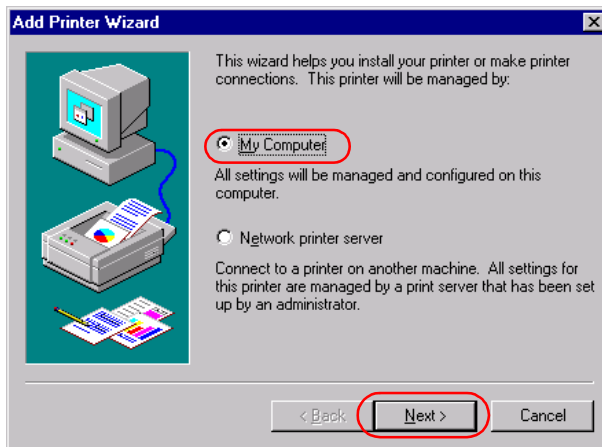
- 4** When the installation is complete, the following dialog box appears. Click **OK** to close the box. Click **Finish** on the **Found New Hardware Wizard**.



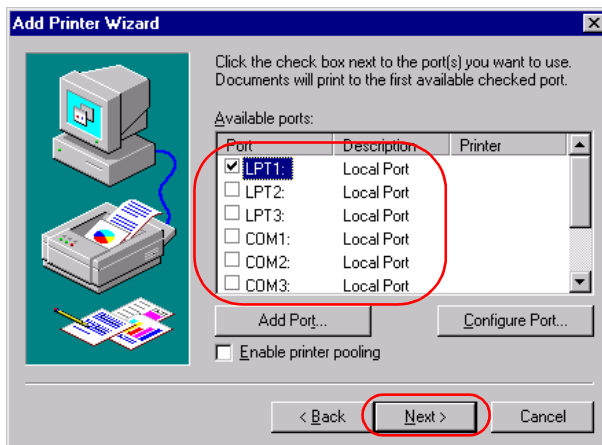
■ Windows NT Add Printer Wizard

To install CAPT on a local computer using Windows NT, you can use the Windows NT **Add Printer Wizard**.

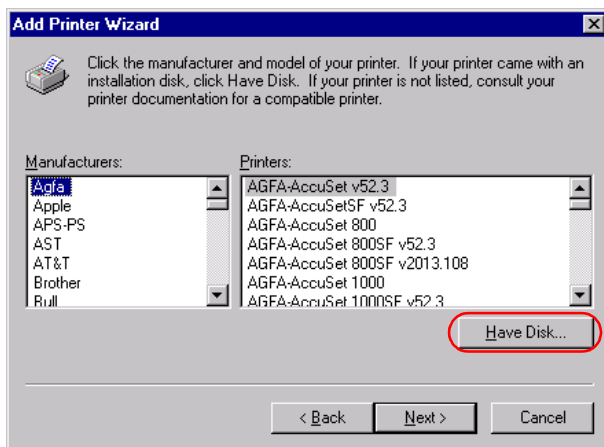
- 1 Log on as a member of Administrators. The full control access right for the printer is necessary for the installation of CAPT.
- 2 From the **Start** menu, select **Settings** → click **Printers**. The **Printers** folder appears.
- 3 Double-click the **Add Printer** icon. The **Add Printer Wizard** dialog box appears.



- 4 Select **My Computer** → click **Next**.
- 5 Select the printer port or ports you want to use → click **Next**.



- 6 Click **Have Disk** in the **Manufacturers/Printers** dialog box.

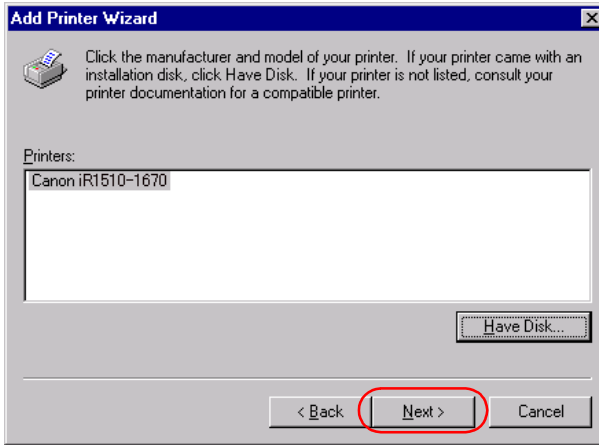


- 7 The **Install From Disk** dialog box appears. Place the CD-ROM into the CD-ROM drive. Use **Browse** to select the directory or enter the path name that contains CAPT → click **Open** → **OK**.

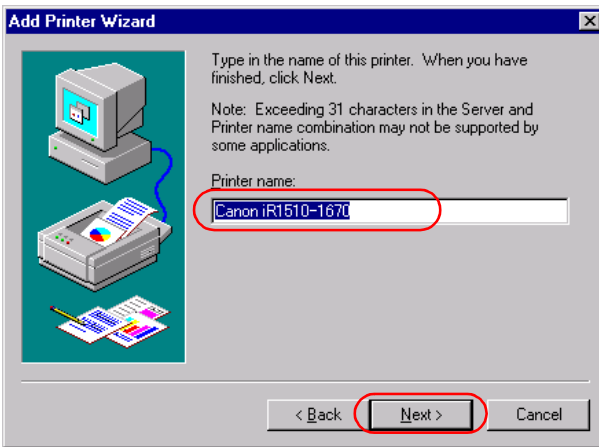


- For example, if you are using the CD-ROM to install CAPT, and your CD-ROM drive is drive “D:”, the path name would be “D:\English\WinNT40”.

- 8 Select your printer model from the list of printers displayed → click **Next**.



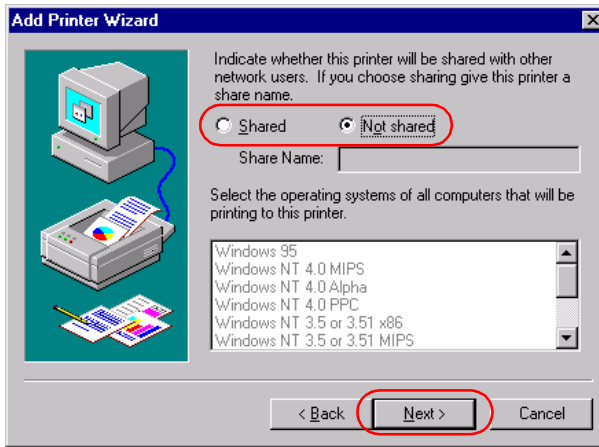
- 9 Click **Next** to accept the default printer name, or enter the name you wish to use → click **Next**.



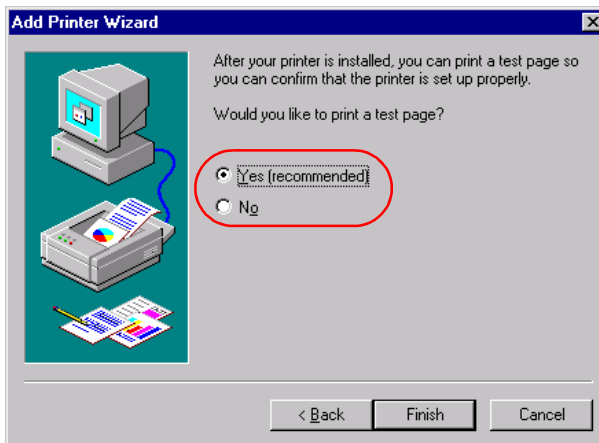
NOTE

If you already have another printer installed, you will be asked whether to use this printer as the default.

- 10 Select whether this printer is shared with other computers. If it is shared, select all the operating systems that will use this printer. Click **Next**.

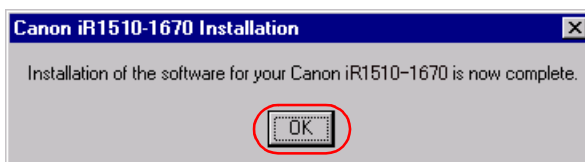


- 11 Click **Yes (recommended)** if you want to print a test page, or **No** if you do not want to print a test page → click **Finish**.

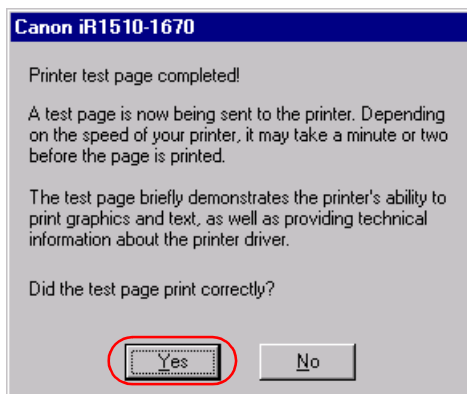


Windows creates the **Canon iR1510-1670** icon on the Desktop, and the **Canon iR1510-1670** icon is added to the **Printers** folder.

- 12 When the installation is complete, the following dialog box appears. Click **OK** to close the box.



- 13** If you opted to print a test page, the test page prints after the installation completes, and the following dialog appears. If the test page printed correctly, click **Yes**.

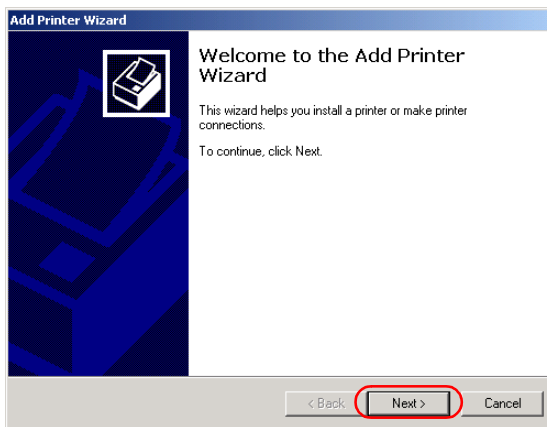


■ Windows 2000 Add Printer Wizard

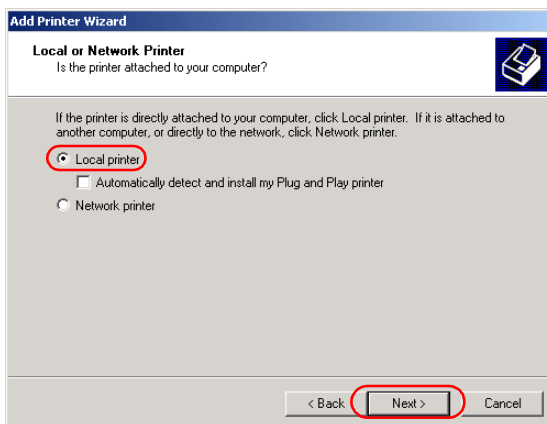
To install CAPT on a local computer using Windows 2000, you can use the **Add Printer Wizard**.

The following is the installation procedure using a parallel port, under Windows 2000.

- 1 Log on as a member of Administrators. The full control access right for the printer is necessary for installation of CAPT.
- 2 From the **Start** menu, select **Settings** → **Printers**. The **Printers** folder appears.
- 3 Double-click the **Add Printer** icon. The **Add Printer Wizard** dialog box appears. Click **Next**.



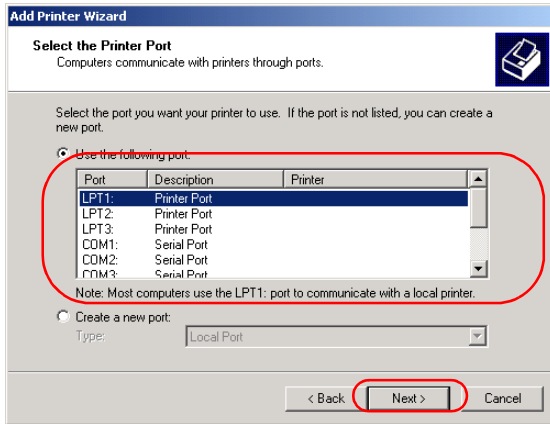
- 4 Select **Local printer** → click **Next**.



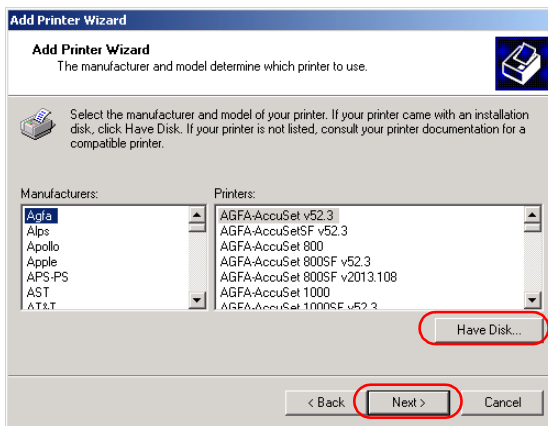
IMPORTANT

Checking “**Automatically detect and install my Plug and Play printer**” is not recommended.

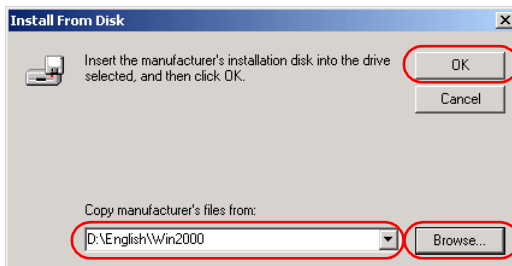
5 Select the printer port or ports you want to use → click **Next**.



6 Click **Have Disk** in the **Manufacturers/Printers** dialog box.

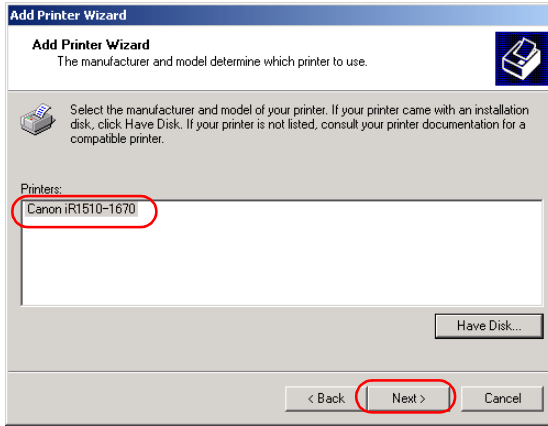


7 The **Install From Disk** dialog box appears. Place the CD-ROM into the CD-ROM drive. Use **Browse** to select the directory or enter the path name that contains CAPT → click **Open** → **OK**.



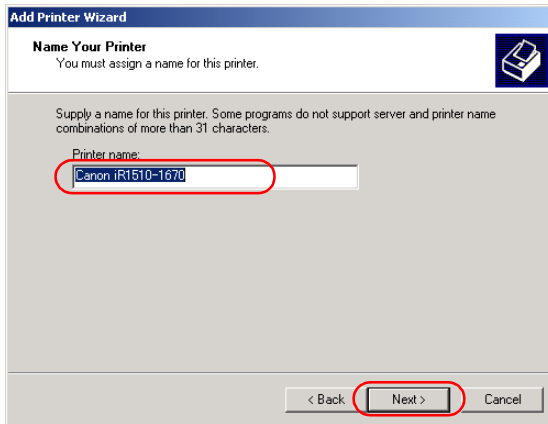
For example, if you are using the CD-ROM to install CAPT, and your CD-ROM drive is drive "D:", the path name would be "D:\English\Win2000".

8 Select your printer model from the list of printers displayed → click **Next**.

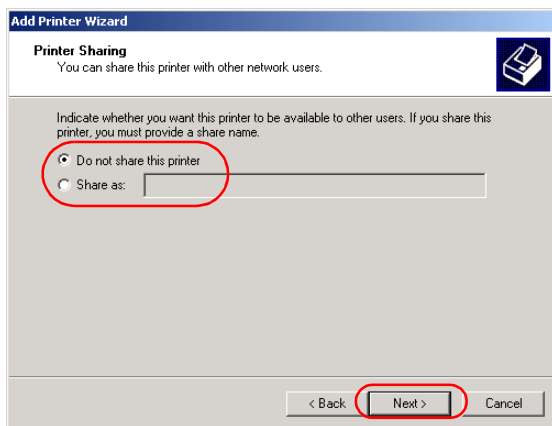


If you already have another printer installed, you will be asked whether to use this printer as the default.

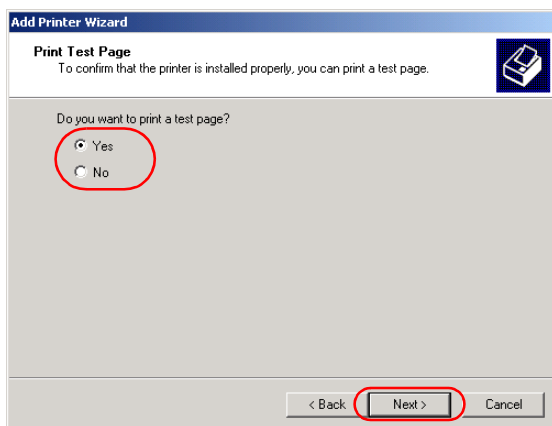
9 Click **Next** to accept the default printer name, or enter the name you wish to use → click **Next**.



- 10** Select whether this printer is shared with other computers → click **Next**.



- 11** Click **Yes** if you want to print a test page, or **No** if you do not want to print a test page → click **Next**.

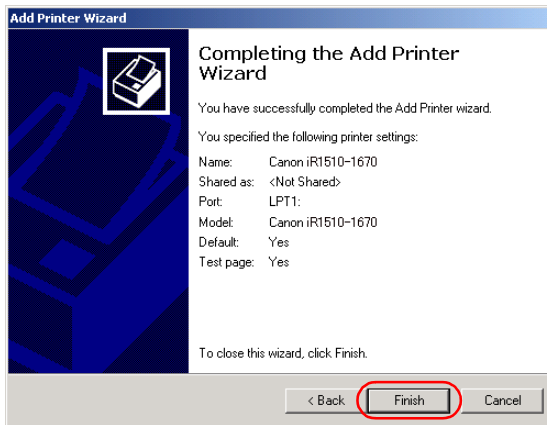


12 Click **Finish**.



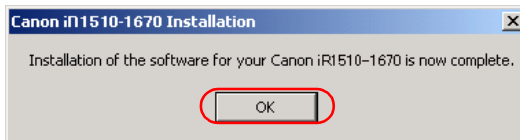
NOTE

Click **Yes** if the **Digital Signature Not Found** dialog box appears.

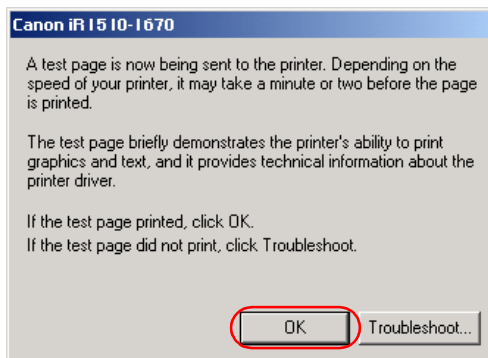


Windows creates the **Canon iR1510-1670** icon on the Desktop, and the **Canon iR1510-1670** icon is added to the **Printers** folder.

13 When the installation is complete, the following dialog box appears. Click **OK** to close the box.



14 If you opted to print a test page, the test page prints after the installation completes, and the following dialog box appears. If the test page printed correctly, click **OK**.



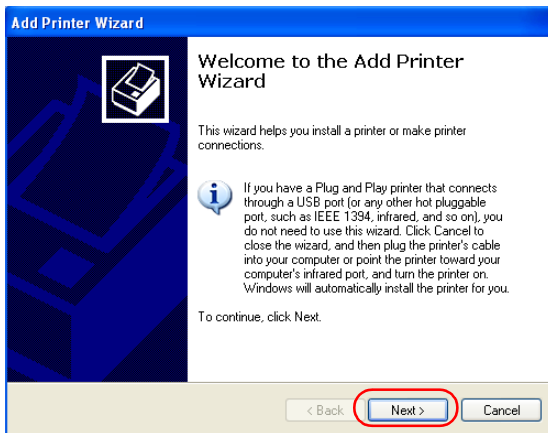
■ Windows XP/Server 2003 Add Printer Wizard

To install CAPT on a local computer using Windows XP/Server 2003, you can use the **Add Printer Wizard**.

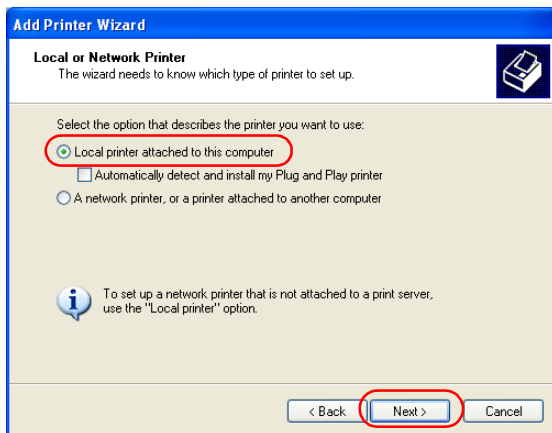
The following is the installation procedure using a parallel port, under Windows XP/Server 2003.

To install the Canon iR1510-1670 printer driver to a USB port, perform the “**Plug and Play**” procedure.

- 1 Log on as a member of Administrators. The full control access right for the printer is necessary for installation of CAPT.
- 2 From the **Start** menu, select **Printers and Faxes**. The **Printers and Faxes** folder appears.
- 3 Double-click the **Add a Printer** in **Printer Tasks**. The **Add Printer Wizard** dialog box appears. Click **Next**.



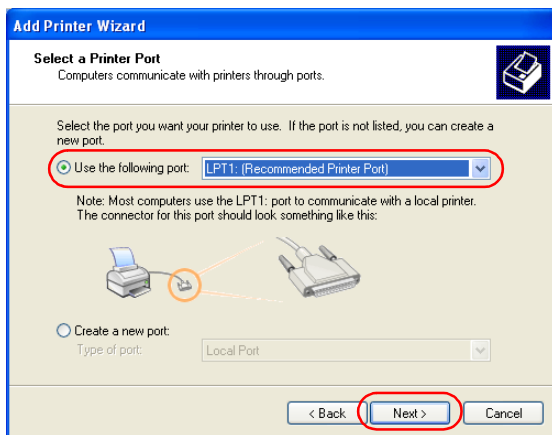
4 Select **Local printer attached to this computer** → click **Next**.



IMPORTANT

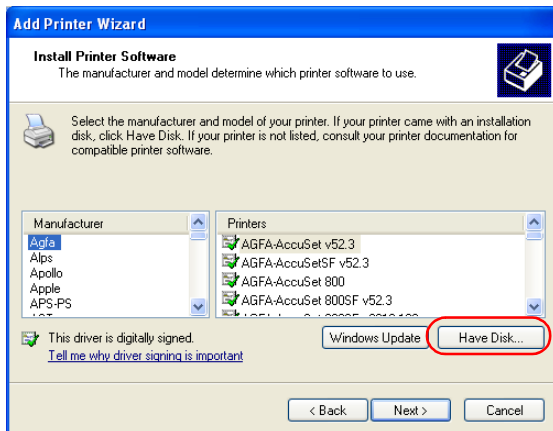
Checking “**Automatically detect and install my Plug and Play printer**” is not recommended.

5 Confirm that **Use the following port** is selected and select the printer port you want to use → click **Next**.

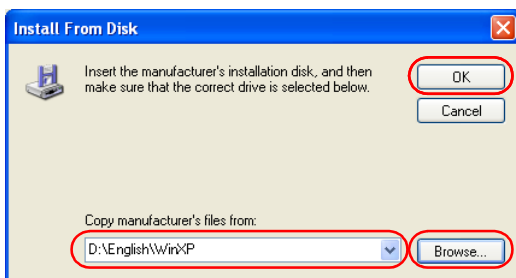


2

6 Click **Have Disk** in the **Manufacturers/Printers** dialog box.

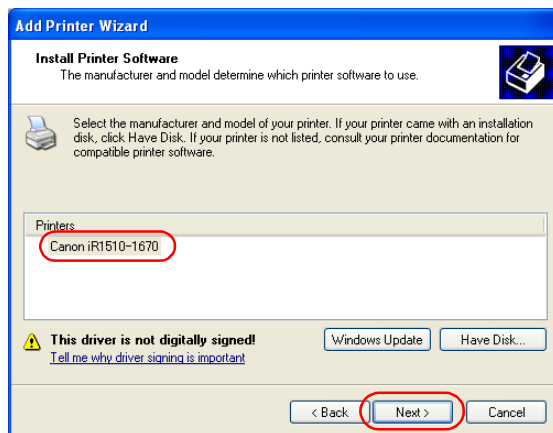


7 The **Install From Disk** dialog box appears. Place the CD-ROM into the CD-ROM drive. Use **Browse** to select the directory or enter the path name that contains CAPT → click **Open** → **OK**.

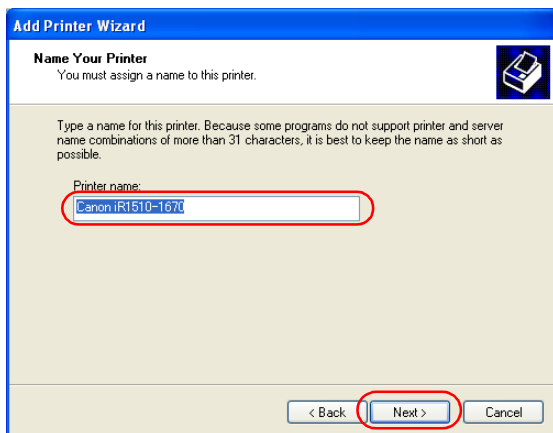


For example, if you are using the CD-ROM to install CAPT, and your CD-ROM drive is drive “D:”, the path name would be “D:\English\WinXP”.

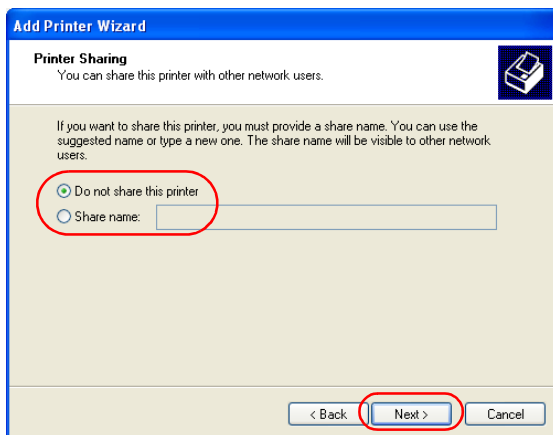
8 Select your printer model from the list of printers displayed → click **Next**.



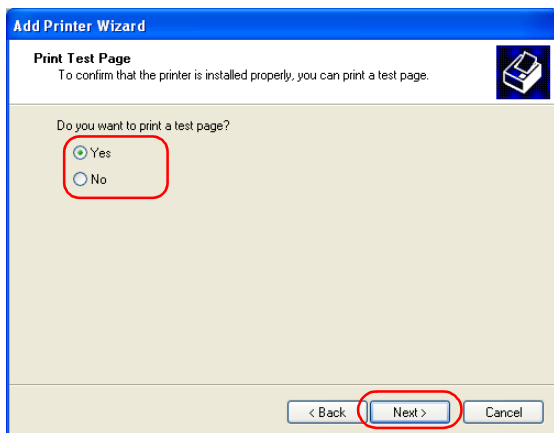
- 9 Click **Next** to accept the default printer name, or enter the name you wish to use → click **Next**.



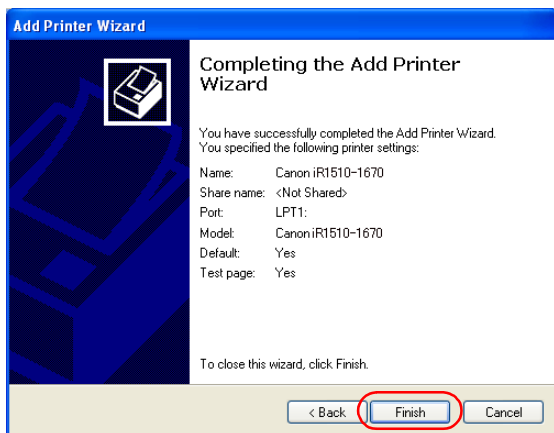
- 10 Select whether this printer is shared with other computers → click **Next**.



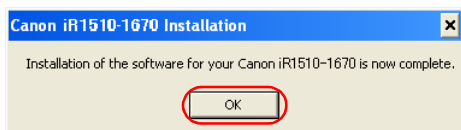
- 11** Click **Yes** if you want to print a test page, or **No** if you do not want to print a test page → click **Next**.



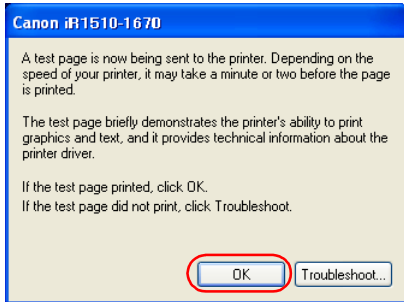
- 12** Click **Finish**.
Click **Continue Anyway** if the **Hardware Installation** dialog box appears. Windows creates the **Canon iR1510-1670** icon on the desktop, and the **Canon iR1510-1670** icon is added to the **Printers and Faxes** folder.



- 13** When the installation is complete, the following dialog box appears. Click **OK** to close the box.



If you opted to print a test page, the page prints after the installation completes, and the following dialog appears. If the test page printed correctly, click **OK**.



Network Users

■ Connecting to the imageRUNNER 1670F/1630/1610 Already on Your Network

If the imageRUNNER 1670F/1630/1610 is already on your network, you can install it in two different ways. The easiest way is using automatic network download. If network download is not available, you can use the **Add Printer Wizard**.

■ Network Download

Windows 95/98/Me and Windows NT/2000/XP/Server 2003 clients can download the drivers for the imageRUNNER 1670F/1630/1610 automatically.

- 1 Open Explorer and browse the network until you find the **Canon iR1510-1670** printer icon.
- 2 Double-click the printer icon, or drag the printer icon to the **Printers** (in Windows XP/Server 2003, the **Printers and Faxes**) folder.
- 3 Follow the instructions on screen.



NOTE

- Service Pack 4 or later must be installed on Windows NT servers in order for Windows 95/98/Me clients to use network download.
- Windows NT/2000/XP/Server 2003 clients cannot download the driver from Windows 95/98/Me servers.

■ Windows 95/98/Me Add Printer Wizard

To install CAPT for a network printer, you can use the Windows 95/98/Me **Add Printer Wizard**.

- 1 From the **Start** menu, select **Settings** → **Printers**. The **Printers** folder appears.
- 2 Double-click the **Add Printer** icon. The **Add Printer Wizard** dialog box appears.
- 3 Select **Network printer** → click **Next**.



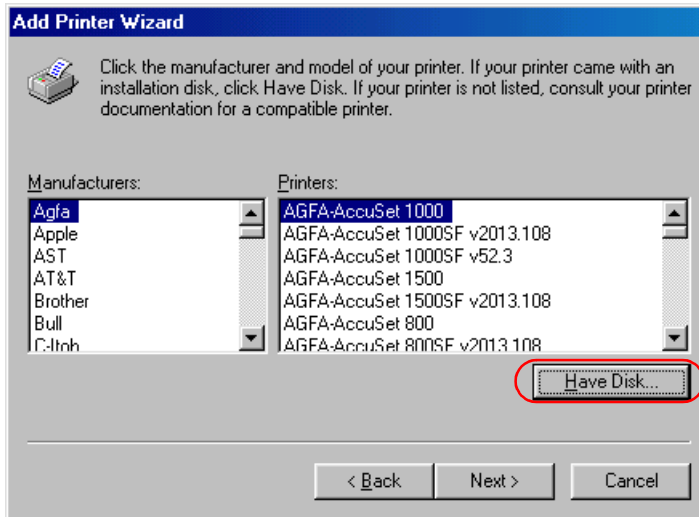
- 4 Enter the network path or print queue that you want to connect to, or use **Browse** to open the **Browse for Printer** dialog box to select the printer.



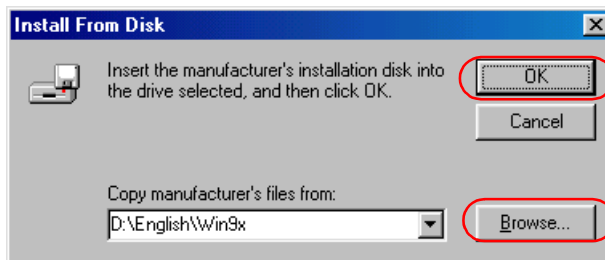
NOTE

Depending on your network environment, the installation of the driver may be carried out automatically. In this case proceed to step 9.

- 5 The Wizard displays a list of available printers. Click **Have Disk**.



- 6 The **Install From Disk** dialog box appears. Use **Browse** to select the directory or enter the path name that contains the CAPT software → click **OK**.



- 7 You can enter a name for the printer, or accept the default name → click **Next**.



NOTE

If the connection fails you are able to install the printer, but you will not be able to use the printer until it comes back online.

- 8 Follow the instructions on screen to complete installation.

■ Windows NT/2000/XP/Server 2003 Add Printer Wizard

To install CAPT for a network printer, you can use the Windows NT/2000/XP/Server 2003 **Add Printer Wizard**.

- 1** Log on as a member of Administrators. The full control access rights for the printer is necessary for installation of CAPT.
- 2** From the **Start** menu, select **Settings → Printers** (in Windows XP/Server 2003, select **Printers and Faxes** from the **Start** menu). The **Printers** (in Windows XP/Server 2003, **Printers and Faxes**) folder appears.
- 3** Double-click the **Add Printer** icon (in Windows XP/Server 2003, click **Add a printer** in **Printer Tasks**). The **Add Printer Wizard** dialog box appears.
- 4** Select **Network printer server** (in Windows XP/Server 2003, select **A network printer, or a printer attached to another computer**) → click **Next**. The **Connect to Printer (Specify a Printer** in Windows XP/Server 2003) dialog box appears.
- 5** Select the printer you want to connect to → click **OK**. If the printer name is invalid, it means that the client could not connect to the network printer specified. If a suitable driver is not found, it probably means that the server is a Windows 95/98/Me computer.
- 6** Follow the instructions on the screen to complete the installation.

Printer Sharing

By using your imageRUNNER 1670F/1630/1610 machine on a network, users can share the device for printing. Printer sharing with the imageRUNNER 1670F/1630/1610 requires that both the print server and the client devices are using Windows 95 or later, or Windows NT or later. The print server and client do not need to use the same operating system, and it is possible to print from a Windows 95/98/Me client to a Windows NT/2000/XP/Server 2003 print server, or vice versa.

You can start printing simply by starting the server, even if the server was not running when the client was started.

If the server is running on Windows NT/2000/XP/Server 2003, you can print, even if no one is logged into the server. Please note that there is no status display on the server when no one is logged in. The status display is shown on the client.

■ Connecting the imageRUNNER 1670F/1630/1610 as a Network Printer

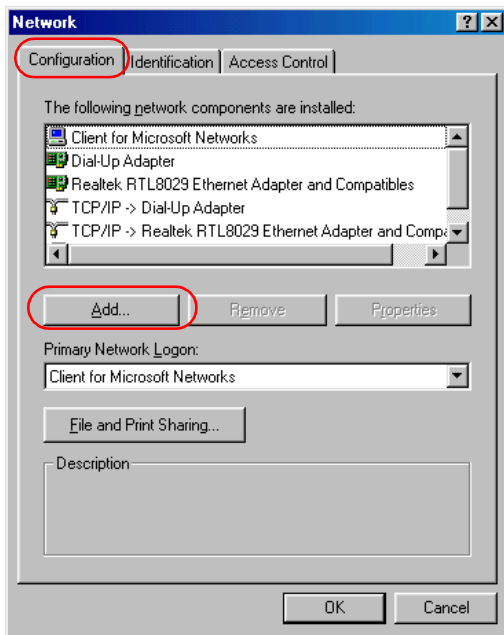
If you plan to share the imageRUNNER 1670F/1630/1610 on a network, install the print server locally, then make the following settings. See your print server system documentation for more information.

■ Windows 95/98/Me Server Settings

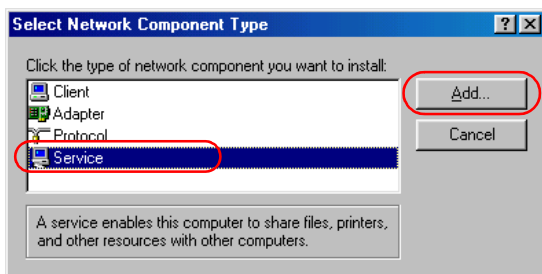
Network Settings

1 Double-click the **Network** icon in the **Control Panel**.

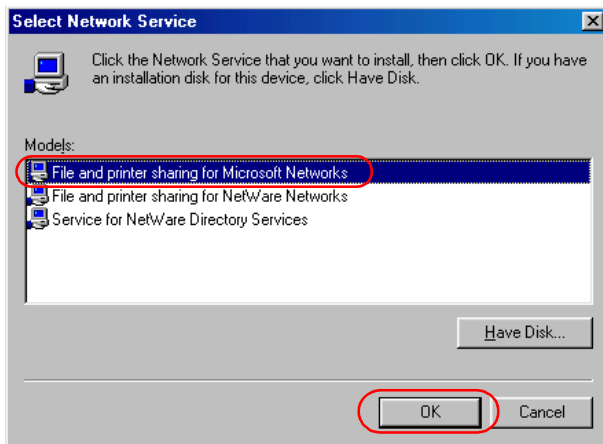
2 Select the **Configuration** tab → click **Add**.



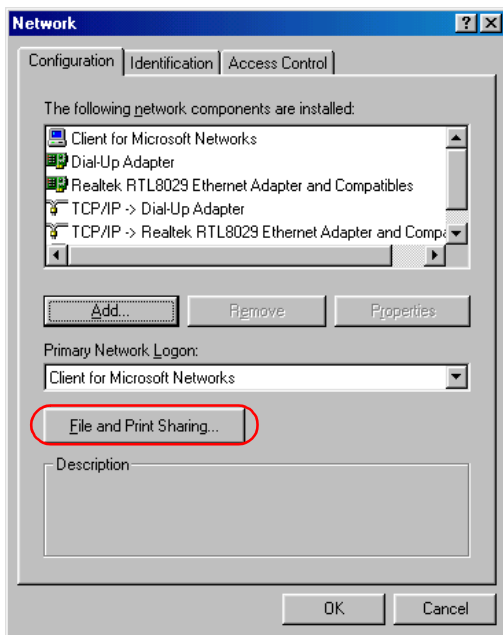
3 Select **Service** → click **Add**.



4 Select **File and printer sharing for Microsoft Networks** → click **OK**.

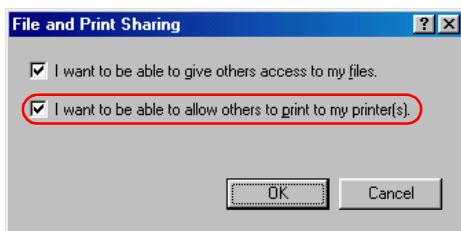


5 Click **File and Print Sharing**.

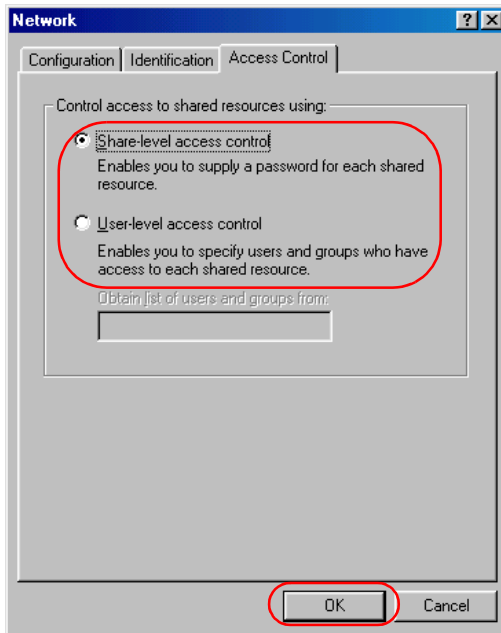


NOTE

Be sure to select the **I want to be able to allow others to print to my printer(s)** check box.



- 6** Select the **Access Control** tab → check either **Share-level access control** or **User-level access control**.

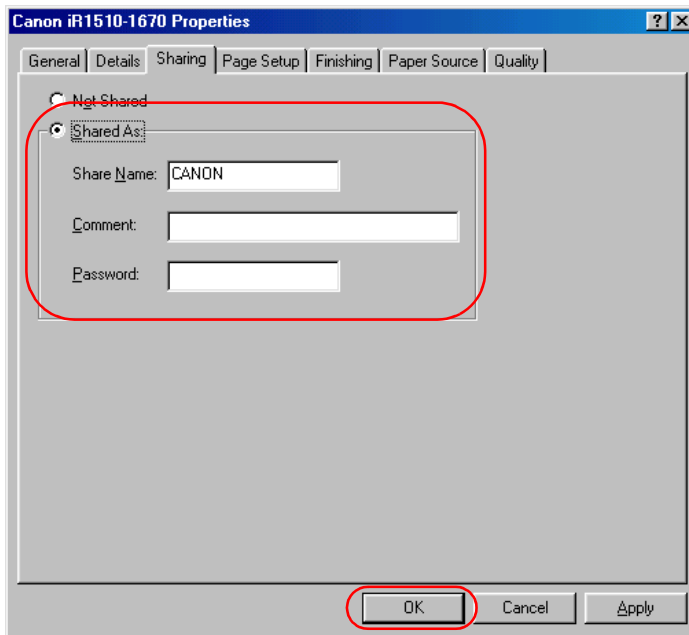


- 7** Click **OK** → restart Windows.

Printer Settings

Share-level Access Control

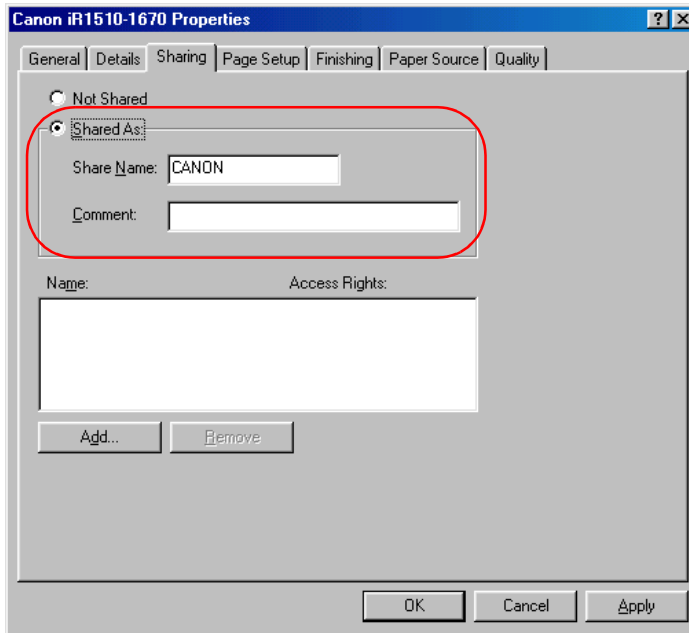
- 1 Open the **Canon iR1510-1670 Properties** window → check **Shared As** in the **Sharing** tab.



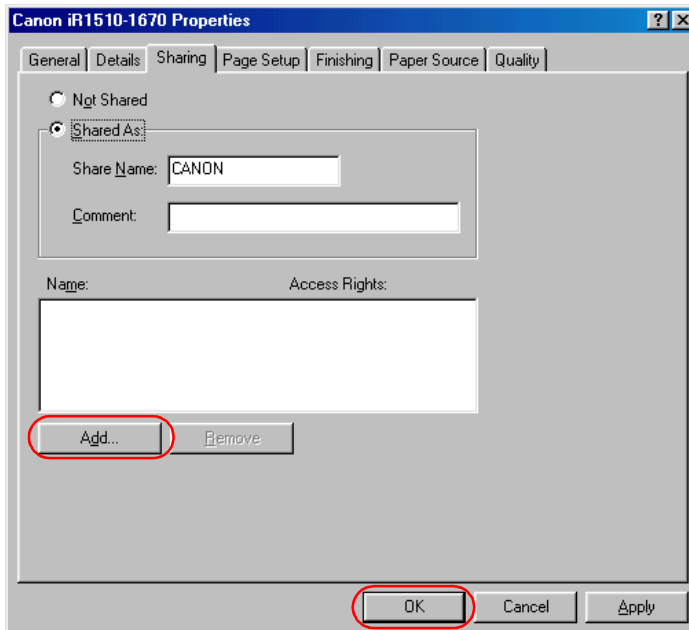
- 2 Enter the **Share Name**, **Comment**, and **Password**, as needed.
- 3 Click **OK**.

User-level Access Control

- 1 Open the **Canon iR1510-1670 Properties** window → check **Shared As** in the **Sharing** tab.



- 2 Enter the **Share Name** and **Comment**, as needed.
- 3 Click **Add** → select the users allowed to access the printer.



4 Click **OK** when you have finished adding users.

5 Click **OK** again.



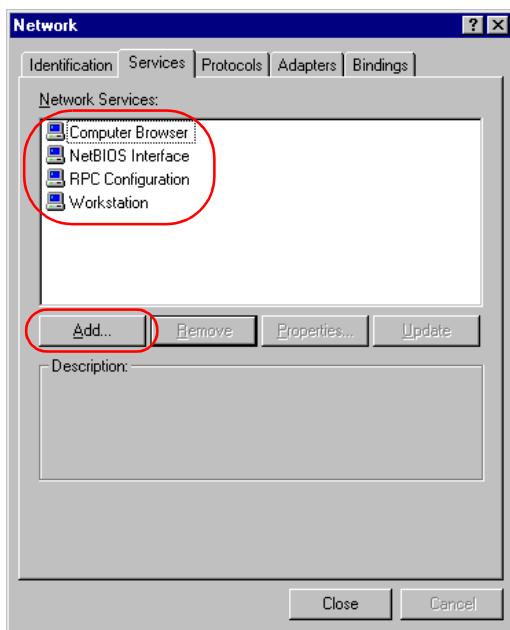
Do not enter a space or special character in **Share Name**.

■ Windows NT/2000/XP/Server 2003 Server Settings

Add Server Service (Windows NT)

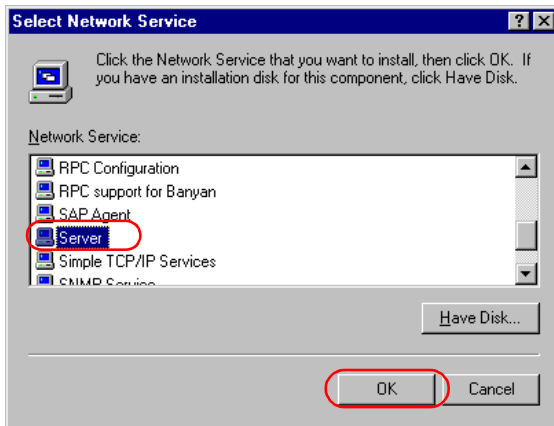
1 Double-click the **Network** icon from the **Control Panel**.

2 Select the **Services** tab, and if the **Server** is not shown, click **Add**.



2

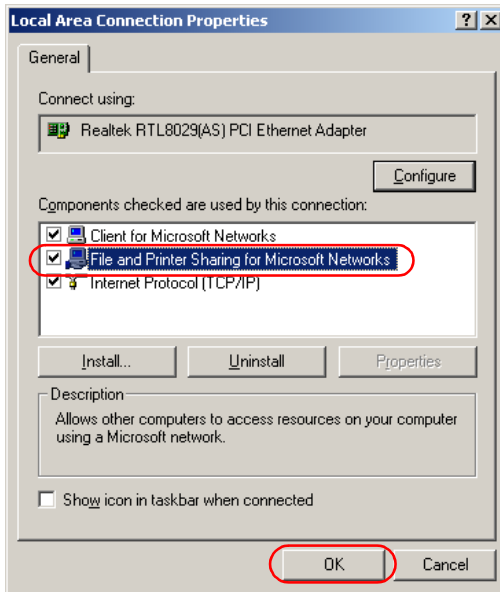
3 Select the **Server** → click **OK**.



4 Restart Windows.

Add Server Service (Windows 2000)

- 1 From the **Start** menu, select **Settings → Network and Dial-up Connections**.
The **Network and Dial-up Connections** folder appears.
- 2 Right-click the **Local Area Connection** icon → select **Properties** from the pop-up menu.
The **Local Area Connection Properties** dialog box appears.
- 3 Select **File and Printer Sharing for Microsoft Networks** → click **OK**.

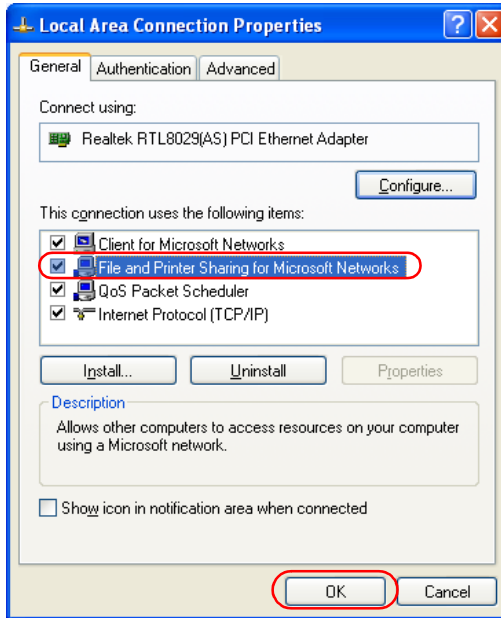


Add Server Service (Windows XP/Server 2003)*

- 1 From the **Start** menu, select **Control Panel**.
The **Control Panel** folder appears.
- 2 Click **Network and Internet Connections**.
The **Network and Internet Connections** folder appears.
- 3 Click **Network Connections**.
The **Network Connections** folder appears.
- 4 Right-click the **Local Area Connection** icon → select **Properties** from the menu.
The **Local Area Connection Properties** dialog box appears.



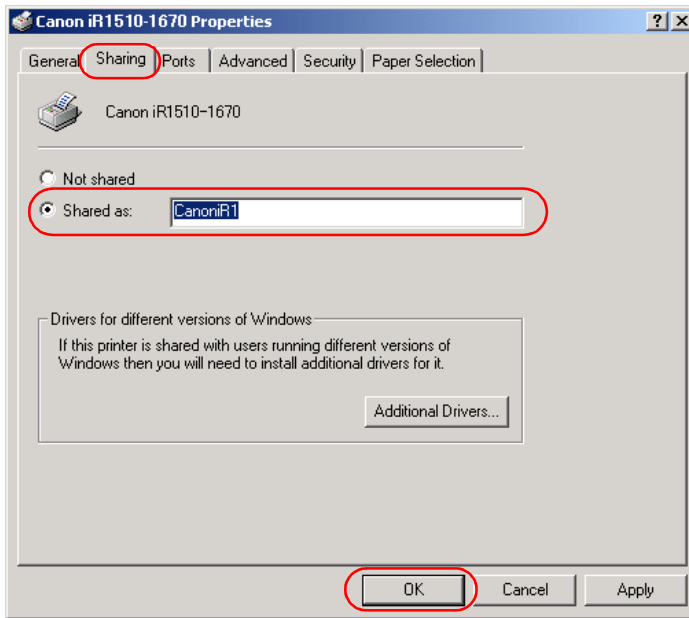
5 Select **File and Printer Sharing for Microsoft Networks** → click **OK**.



* The procedure for Windows XP is given for Category View Mode.

Printer Sharing Settings

- 1 Open the **Canon iR1510-1670 Properties** window → check **Shared as** in the **Sharing** tab.



- 2 Enter the share name in the edit box as needed.
- 3 Click **OK**. The printer icon changes to indicate sharing.



NOTE

Sharing settings may also be made during installation.

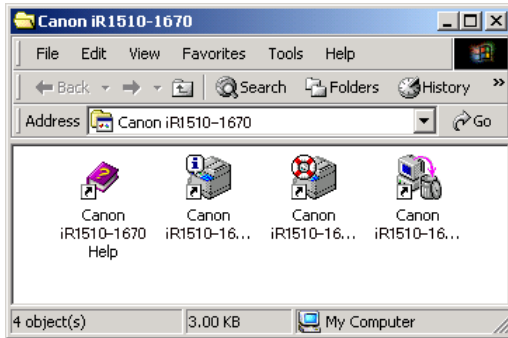
■ Status Display

The status of a shared printer displays on both the print server and client computer, and job operations can be executed from either.

Status display requires status exchanges between the print server and client using TCP/IP or NetBEUI protocols. Status display is not supported if IPX/SPX is the only protocol used.

Canon iR1510-1670 Group

After installation is complete, the **Canon iR1510-1670** group is created.



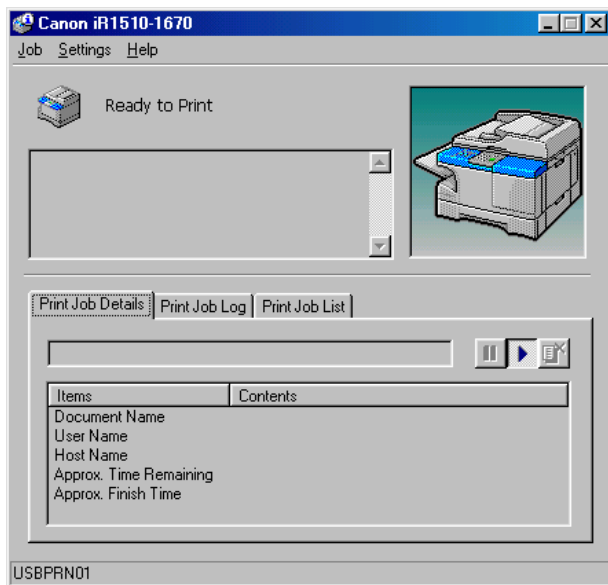
You can select the following from the **Canon iR1510-1670** group:

- **Canon iR1510-1670 Help**
Selects the Canon iR1510-1670 Help file for CAPT.
- **Canon iR1510-1670 Status Window**
Displays the Canon iR1510-1670 Status Window.
- **Canon iR1510-1670 Trouble Shooter**
Starts the Trouble Shooter program for CAPT. It helps you solve printing problems in Windows 95/98/Me or NT/2000/XP/Server 2003. (→ Chapter 5, *Troubleshooting*.)
- **Canon iR1510-1670 Uninstallation**
Starts the uninstall program for CAPT. If CAPT is not working properly, it might help to uninstall and then install it again. (→ Chapter 5, *Troubleshooting*.)

Printing with CAPT

CAPT offers bidirectional communication between the computer and machine.

Every time you print, CAPT displays the **Canon iR1510-1670** Status Window. This window shows you the paper moving through the machine, how long it will take to print the document, and how much of the document has printed. From the Status Window you can pause, resume, or delete the current print job.



If a printing problem occurs, the **Canon iR1510-1670** Status Window automatically opens and identifies the problem.

Before using CAPT, make sure you select it as your current Windows printer driver.



Printer Properties

3

CHAPTER

This chapter describes the dialogs and settings on the Printer Properties screens. It includes the following information:

Windows 95/98/Me Printer Properties	3-2
Windows NT/2000/XP/Server 2003 Printer Properties and Default Document Properties.	3-16

Windows 95/98/Me Printer Properties

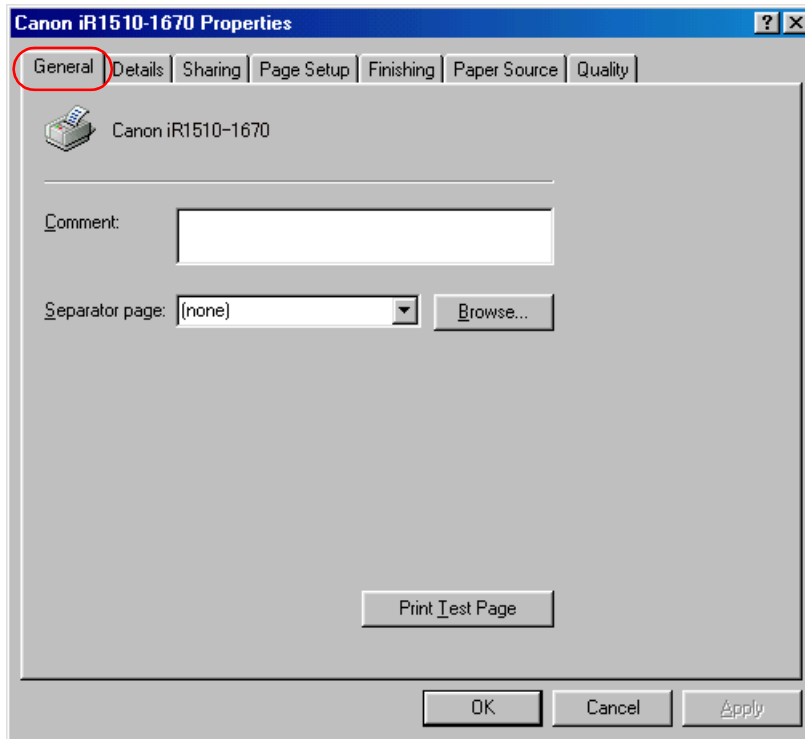
With CAPT, you initiate printing as you normally would from a Windows application. From the **Print** dialog box, usually accessed from an application's **File** menu, you can select **Properties** to proceed to the **Canon iR1510-1670 Properties** dialog box and its printing options.



- You can also open the **Properties** dialog box from the **Printers** folder by right-clicking the **Canon iR1510-1670** icon and clicking **Properties** from the pop-up menu.
- The number of tabs displayed in the **Properties** dialog box will vary, depending on the type of operating system you are using and the method you use to access **Properties**.
- The screen shots shown are from Windows 98.
- The method you use to access the dialog boxes determines how long the printing options remain in effect:
 - If you start from an application's **Print** command, your choices apply only to that print job. They will not be stored when you close the application.
 - If you start from the **Printers** folder, the settings apply to all Windows applications and remain in effect until you change those settings.
- For more information about the following features, see the online Help. To display the online help, select the item you want more information about and press F1, or click ? in the title bar and then select the item of interest.

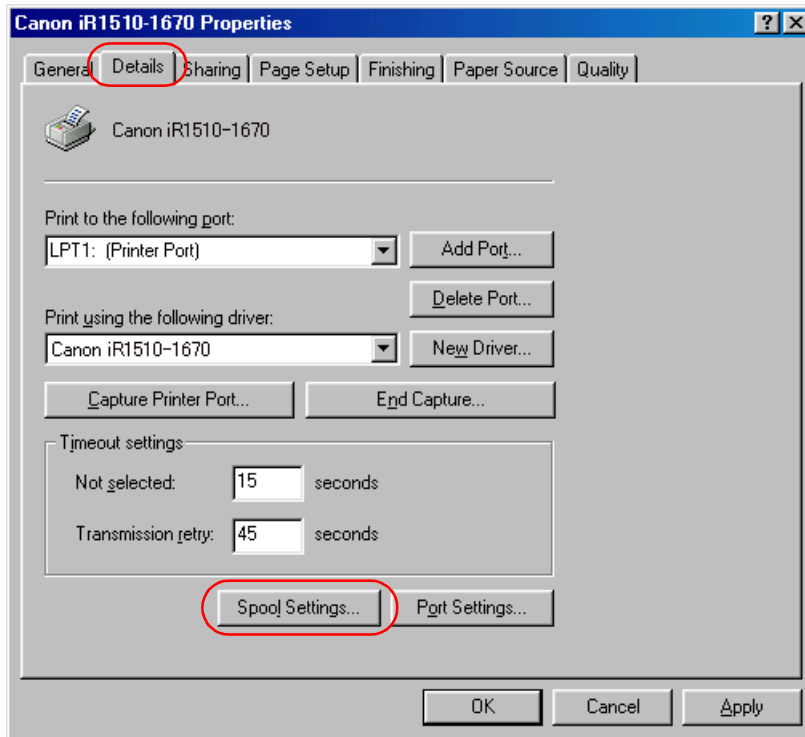
■ General Tab

Lets you print a test page or define separator pages. Refer to your Windows operating system documentation for more information.



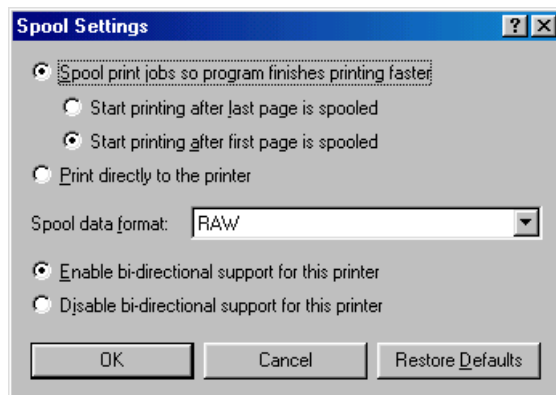
■ Details Tab

Specifies the printer port and time-out settings. Refer to your Windows operating system documentation for more information.



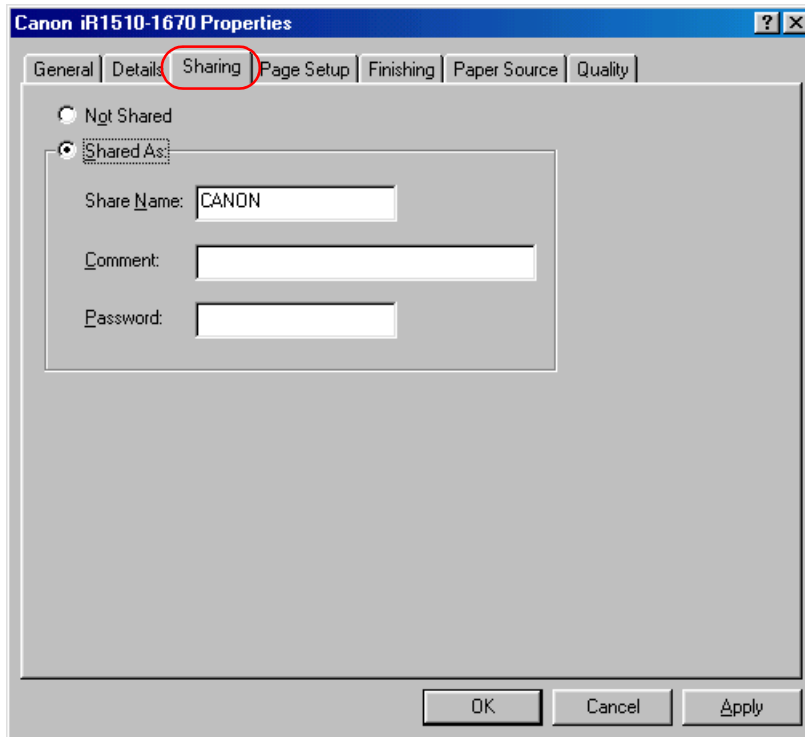
Spool Settings

The installer sets the following defaults:



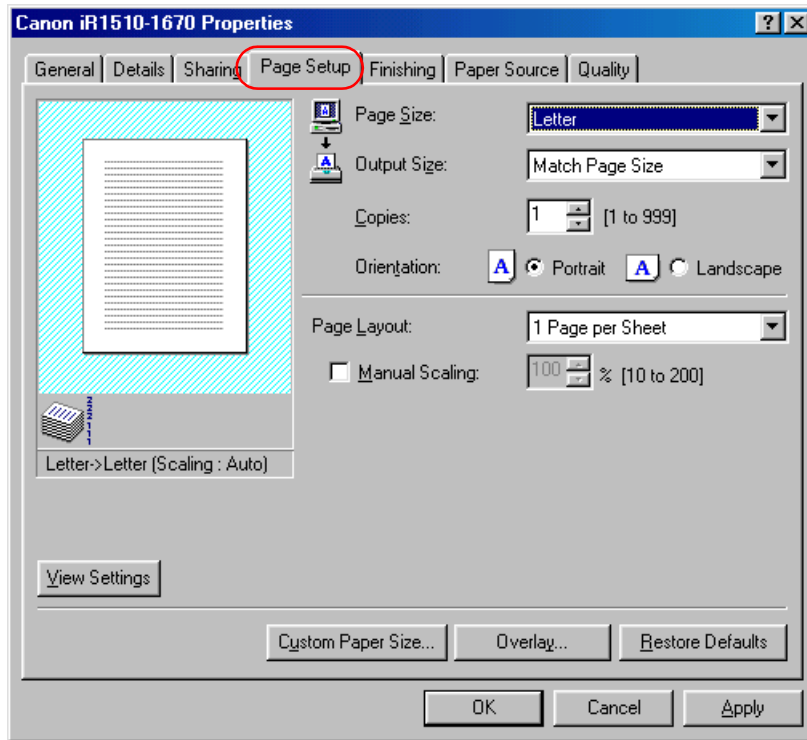
■ Sharing Tab

Specifies the printer-sharing settings. This tab is available only when file and printer sharing is enabled. Refer to your Windows operating system documentation for more information.



■ Page Setup Tab

Specifies paper size, scaling, number of copies, orientation, and pages per sheet.



Default settings depend on the country/region of purchase.

Page Size lets you select the paper size you are working with in your application. (A3, B4, A4, B5, A5, Letter, Legal, Executive, Statement, DL, COM10, ISO-C5, Monarch, and three custom paper sizes. The names of the custom paper sizes are set with the **Custom Paper Size** option.)

Output Size lets you select the paper size to print on. If your output size is set to anything other than **Match Page Size**, the image will be automatically reduced or enlarged to fit on the page.

Copies lets you specify the number of copies to be printed (1 to 999).

Orientation lets you select the direction of printing relative to the paper (Portrait (vertical) or Landscape (horizontal)).

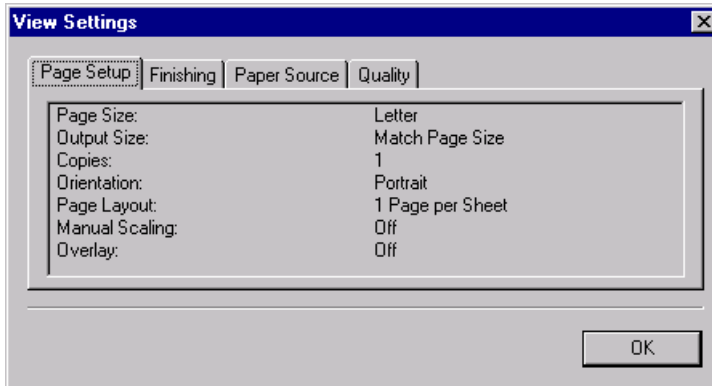
Page Layout lets you select the number of pages per sheet (1, 2, 4, 8, 9). If you select more than 1, the image may be reduced to fit on the selected output size. When 2, 4, 8, or 9 pages per sheet is selected, **Manual Scaling** disappears and **Page Order** appears in its place.



Manual Scaling lets you shrink or enlarge images. This option only appears when **1 Page per Sheet** is selected as the **Page Layout**. Select the check box to set a reduction or enlargement percentage (10 to 200).

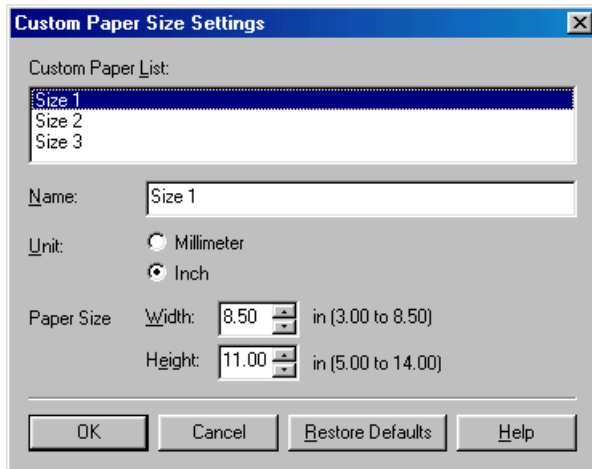
View Settings

To get a quick view of your current settings, click **View Settings**, which is located on the **Page Setup**, **Finishing**, **Paper Source**, and **Quality** tabs. Click on the tabs in the **View Settings** dialog box to view the settings for each tab.



Custom Paper Size Settings

Custom Paper Size in the **Page Setup** tab window allows you to define custom paper sizes for quick selection. You can specify the name, width, and height of each size. You can designate up to three custom sizes.



Default settings depend on the country/region of purchase.

Selecting a Custom Paper Size Setting

- 1 Select one of the predefined sizes from the **Custom Paper List**.
- 2 If you wish, enter a unique name in the **Name** area.
- 3 Select the **Unit** of measurement (**Millimeter** or **Inch**).
- 4 Define the **Paper Size** using the **Width** (3.00 to 8.50 inches (76.2 to 215.9 mm)) and **Height** (5.00 to 14.00 inches (127.0 to 355.6 mm)) settings.
- 5 Click **OK** to accept your changes.

If you wish to restore the default settings to *all* of the custom sizes, click **Restore Defaults**.

Overlay

Overlay Printing allows you to overlay the document created in any Windows application onto a preselected form file.

For example, if there is a form file containing a company name, logo, or address, it will be printed in the same position on each page of the document together with the print data created in an application.

You can easily create perfectly formatted documents with the same appearance from any Windows application.

Overlay Form File Formats

For overlay forms you can use files in the following formats:

- Windows Metafile (WMF)
- Windows Bitmap (BMP)

Creating an Overlay Form File

Before using Overlay Printing, you need to create an overlay form file in an application. To create a form file, you can use applications from the Windows 95/98/Me package and from commercially available software.

- Windows Metafile (WMF)

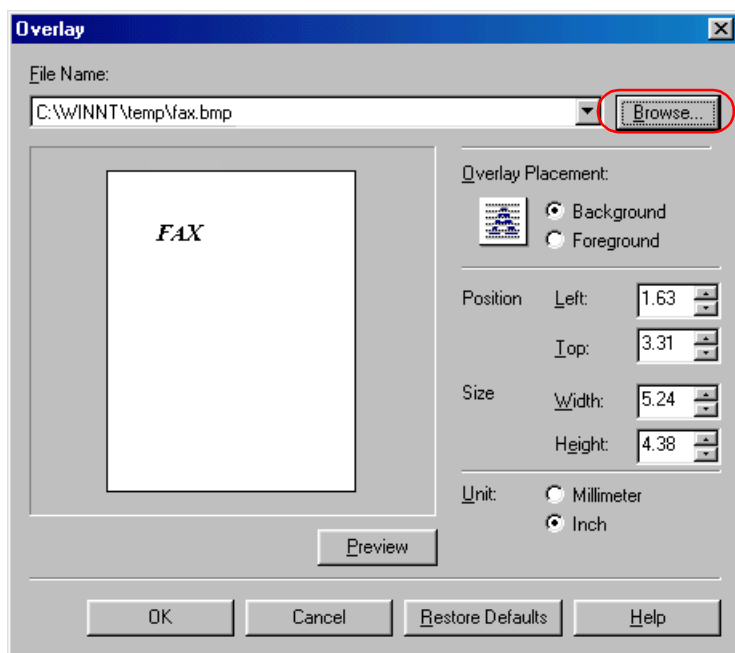
Windows metafile format is used in most commercially available draw applications. Create the form data and save it in the metafile format.

- Windows Bitmap (BMP)

You can easily create a form file in this format using software included in the Windows 95/98/Me package, such as Paint. Windows 95/98/Me desktop wallpapers are also created in this format. There are also a number of commercially available software products, (e.g. Corel PhotoPaint), that use this format. Create the form data using such software and save it as a BMP file.

Setting Overlay

To make settings for overlay printing, click **Overlay** on the **Page Setup** tab. The **Overlay** dialog box appears. Use **Browse** to select the file that contains the overlay data.



File Name sets the file name to use as the overlay form.

The **File Name** dropdown list stores up to nine file names in addition to the default (none) setting.

You can use **Browse** to select the file that contains the overlay data.

Overlay Placement

- **Background**—Select this radio button to place the overlay data in back of (beneath) the application data.
- **Foreground**—Select this radio button to place the overlay data in front of (over) the application data.

Position lets you specify the position of the overlay based on its distance from the paper's left and top edges. Select units of measurement for **Left** and **Top** using the **Millimeter** or **Inch** radio buttons. The valid values interval for this setting is 0 to 16.5 inches (0 to 420 mm).

Size lets you set the size of the overlay. Select units of measurement for **Width** and **Height** using the **Millimeter** or **Inch** radio buttons. The valid values interval for this setting is 0 to 16.5 inches (0 to 420 mm).

Unit lets you set units of measurement using the **Millimeter** or **Inch** radio buttons.

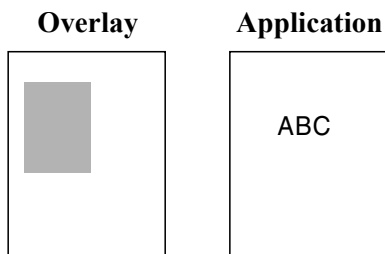
Restore Defaults resets **Left**, **Top**, **Width**, and **Height** to their default values.

Confirm the settings → click **OK**. The **Page Setup** dialog box appears again.

Overlay Placement

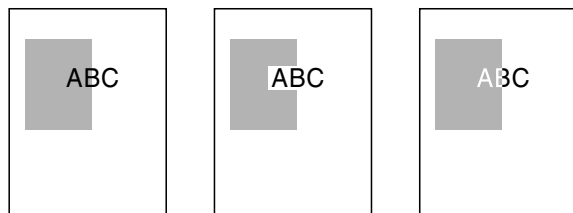
Print results may differ depending on the placement of the overlay and application print data (**Background/Foreground**). When the overlay and application print data (original data) overlap, the print result may differ depending on the overlay file format and the application being used. Settings for overlay printing of your machine allow you to place the overlay form in the foreground (in front) or in the background (in back) of the application print data.

Original data



[Overlay Placement: Background]

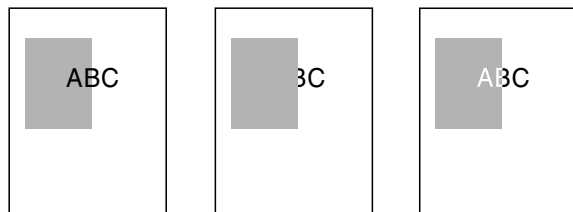
The result will appear similar to one of those shown below.



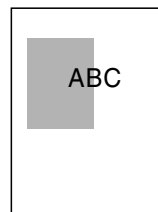
[Overlay Placement: Foreground]

Using Windows Metafile

The result will appear similar to one of those shown below.

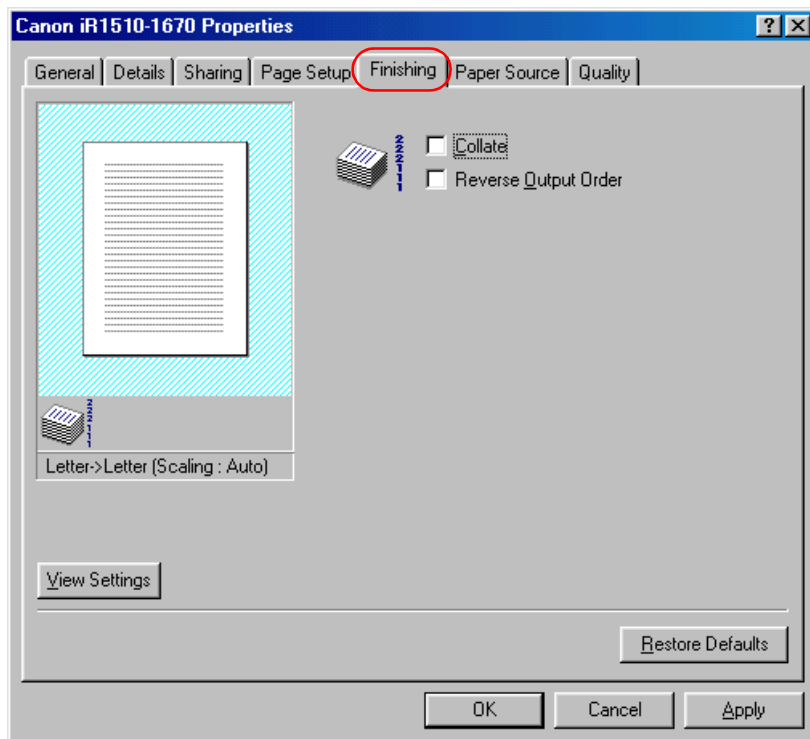


Using Windows BMP



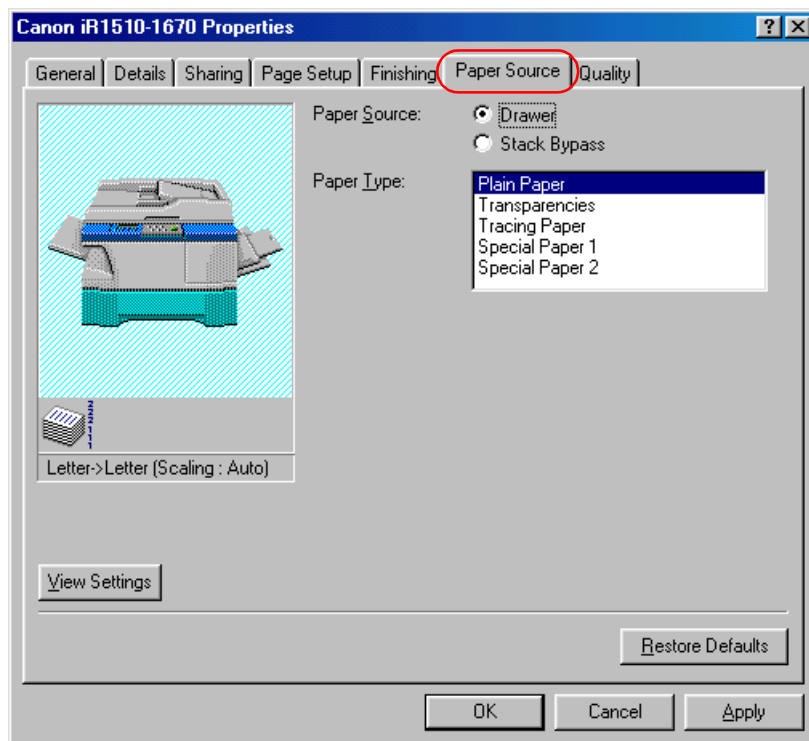
■ Finishing Tab

Specifies how the final output is collated and whether pages should be printed in reverse output order. Select the appropriate check boxes to collate the document or print it in reverse output order.



■ Paper Source

Specifies the paper source and paper type settings.



Paper Source lets you specify the paper feed method. Select from **Drawer** or **Stack Bypass**.

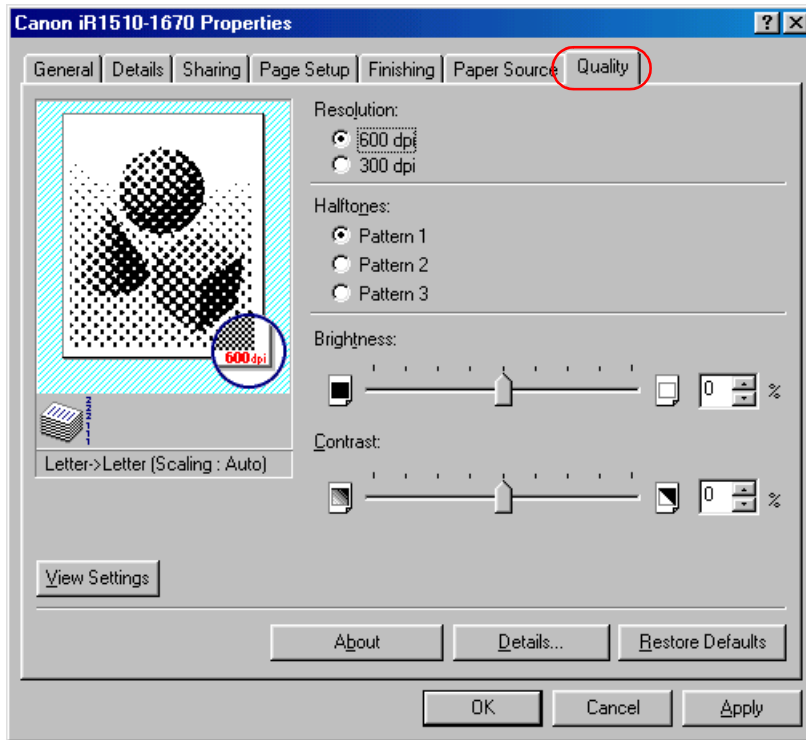
Paper Type lets you select from the following types of paper:

- **Plain Paper** (including colored paper, recycled paper: 64-80 g/m²)
- **Transparencies***
- **Tracing Paper*** (tracing paper, thin paper: 52-63 g/m²)
- **Special Paper 1*** (thick paper)
- **Special Paper 2*** (postcards, envelopes: 81-128 g/m²)

* When **Paper Source** is set to **Drawer**, please do not select paper types other than **Plain Paper**.

■ Quality Tab

Specifies the resolution, halftoning method, brightness, and contrast settings.

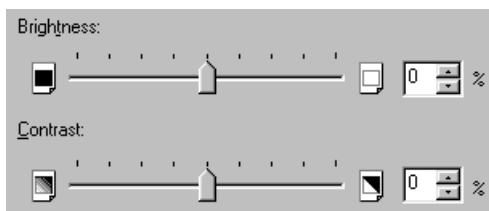


Resolution lets you specify the printer's resolution in dots per inch (600 dpi, 300 dpi).

Halftones is the process of converting a grayscale image to black dots and white (unprinted) dots that simulate the gray shades in the original image. Different halftone patterns give different gray shade results.

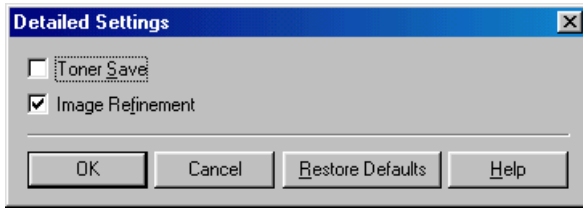
Brightness is the relative proportion of light and dark areas. Decreasing brightness darkens the overall image; increasing brightness lightens it. Brightness is expressed as a relative range from -80% to +80%.

Contrast is the degree of difference between the lightest and darkest areas of an image. Decreasing contrast lightens the dark areas and darkens the light areas; increasing it darkens the dark areas and lightens the light areas. Contrast is expressed as a relative range from -80% to +80%.



Detailed Settings

Details accesses the settings for Toner Save and Image Refinement.



Toner Save thins the black areas of print data, so toner consumption is reduced.

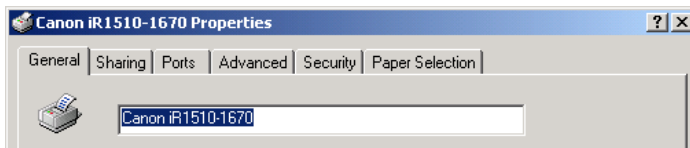
Image Refinement is a printer technology from Canon which automatically senses and refines the jagged edges and ragged curves of characters and graphics.

Windows NT/2000/XP/Server 2003 Printer Properties and Default Document Properties

The CAPT driver for Windows NT/2000/XP/Server 2003 has two main dialog boxes: the **Printer Properties** dialog box and the **Default Document Properties*** dialog box.

Printer Properties

To view the printer properties, select **Properties** from the **File** menu in the **Printers** (in Windows XP/Server 2003, **Printers and Faxes**) folder, or click the right mouse button on the **Canon iR1510-1670** icon in the **Printers** (in Windows XP/Server 2003, **Printers and Faxes**) folder and select **Properties** from the pop-up menu.



Default Document Properties*

In the **Default Document Properties*** dialog box, you can specify the default settings for the printing options available when you print on the imageRUNNER 1670F/1630/1610. To view the default document properties, select **Document Defaults**** from the **File** menu in the **Printers** (in Windows XP/Server 2003, **Printers and Faxes**) folder, or click the right mouse button on the **Canon iR1510-1670** icon in the **Printers** (in Windows XP/Server 2003, **Printers and Faxes**) folder, and select **Document Defaults**** from the pop-up menu.



You can also open an equivalent dialog box and specify the setting by selecting **Print** or **Page Setup** from the **File** menu of an application.



NOTE

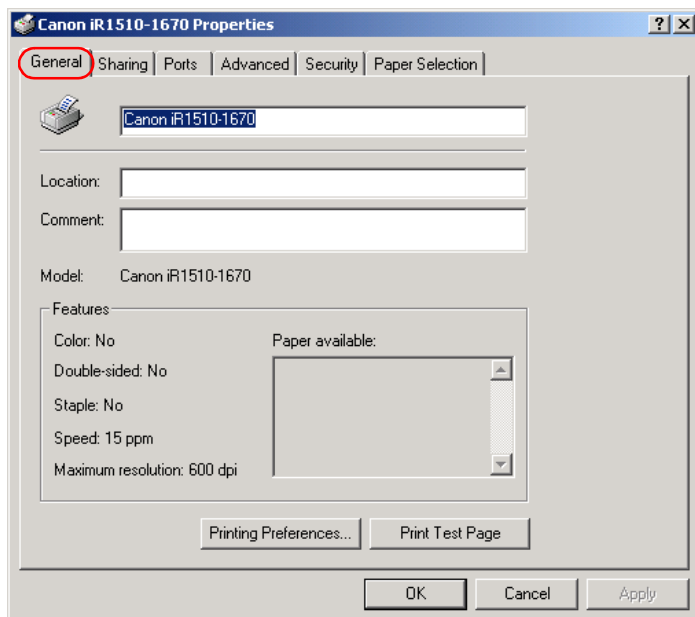
- The number of tabs displayed in the **Properties** dialog box will vary, depending on the type of operating system you are using and the method you use to access **Properties**.
- The screen shots shown are from Windows 2000.
- For more information about the following features, see the online Help. To display the online help, select the item you want more information about and press F1, or click ? in the title bar and then select the item of interest.

* Printing Preference in Windows 2000/XP/Server 2003 (Except for Windows NT)

** Printing Preferences in Windows 2000/XP/Server 2003 (Except for Windows NT)

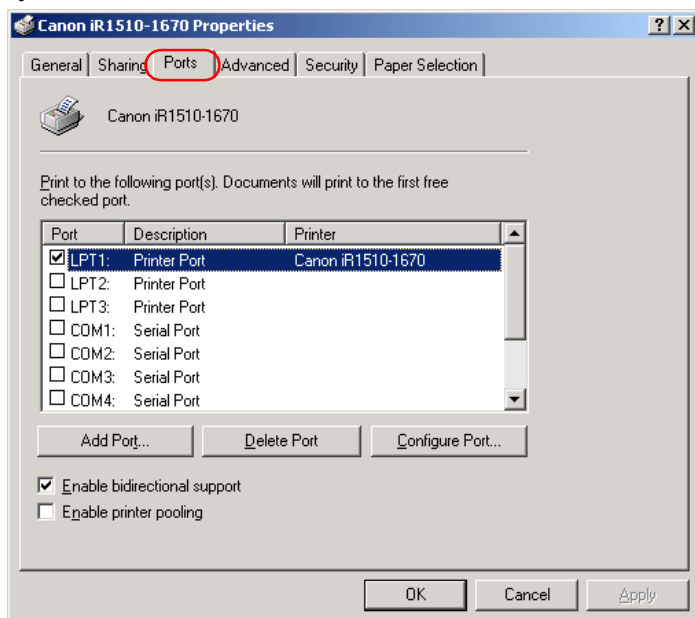
■ General Tab

Lets you specify whether to print a test page and separator pages. Refer to your Windows operating system documentation for more information.



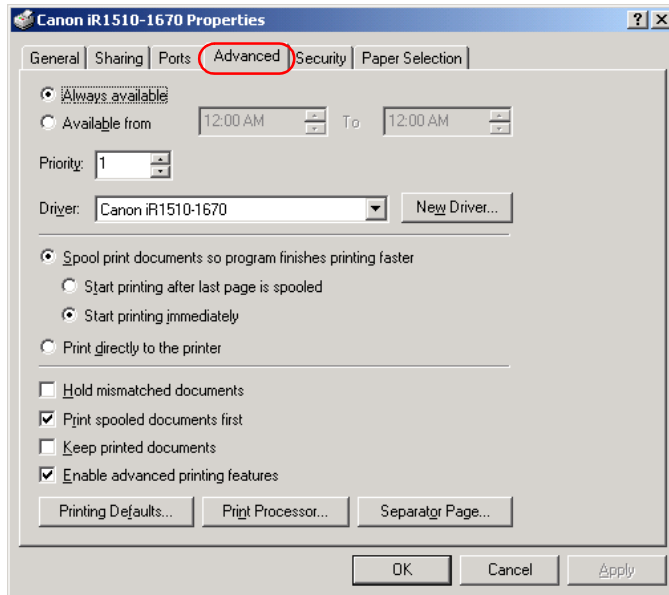
■ Ports Tab

Lets you specify the port to which the printer is attached. Refer to your Windows operating system documentation for more information.



■ Advanced Tab

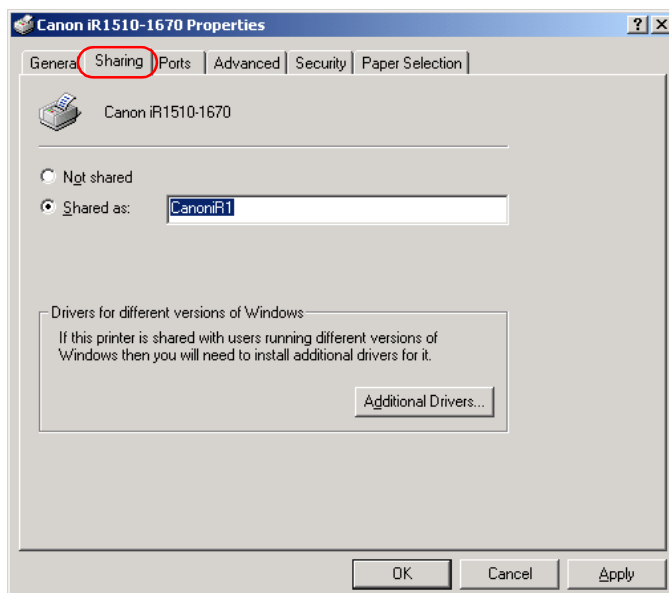
Lets you define print spooling settings. Refer to your Windows operating system documentation for more information.



Spool print documents so program finishes printing faster and **Start printing immediately** are set automatically when you install the printer driver.

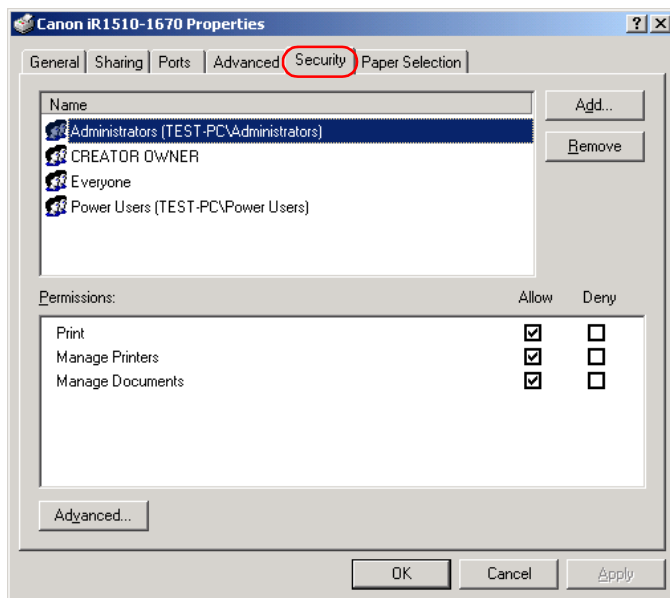
■ Sharing Tab

Specifies the printer-sharing settings. Refer to your Windows operating system documentation for more information.



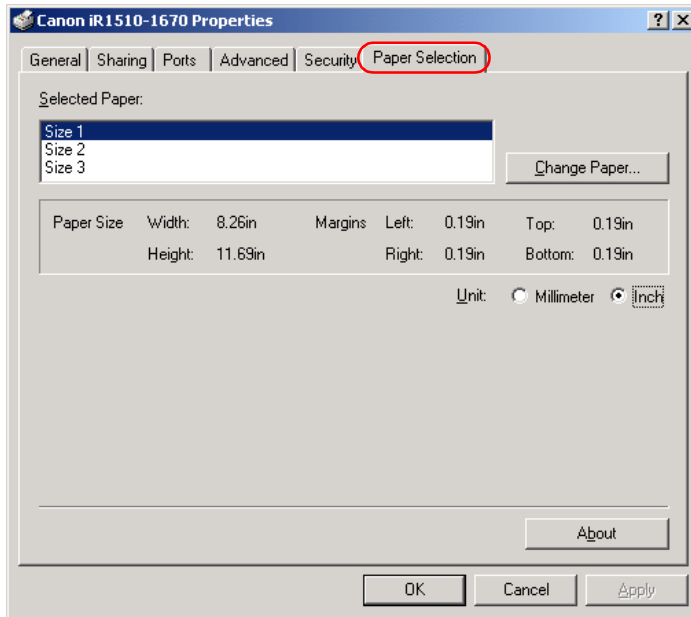
■ Security Tab

Lets you specify security settings. Refer to your operating system documentation for more information.



■ Paper Selection Tab

This printer driver supports three custom paper sizes. Using the custom forms defined on the **Forms** tab in the **Print Server Properties** dialog box, you can add information about the custom paper sizes. Form definitions must conform to the printer's specifications.



Selected Paper shows the names of the three sizes.

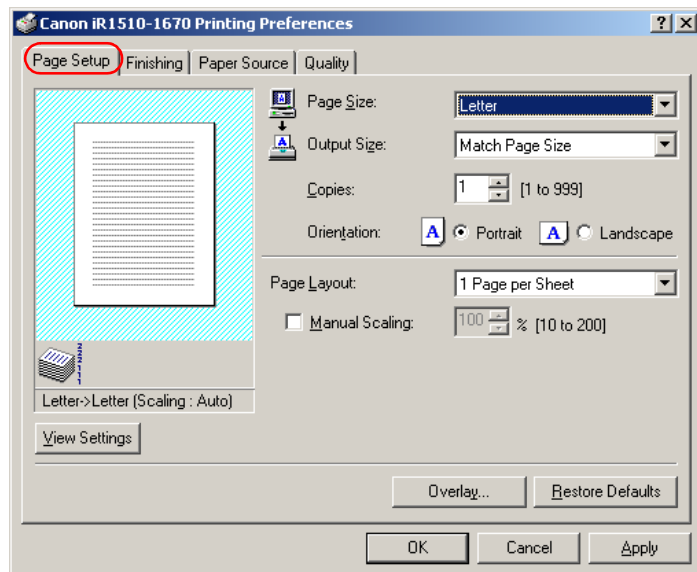
Change Paper opens the **Change Paper** dialog box. This box contains a listing of the available papers, and their definitions (**Available Paper** has **Height**: 5.00 to 14.00 inches (127.0 to 355.6 mm) and **Width**: 3.00 to 8.50 inches (76.2 to 215.9 mm)) that were defined in the **Forms** tab in the **Print Server Properties** dialog box. (The **Print Server Properties** dialog box can be accessed by selecting **Server Properties** from the **File** menu of the **Printers** (in Windows XP/Server 2003, **Printers and Faxes**) folder.)

Only sizes that conform to the printer's specifications are listed as available. When you choose a size in the list and click **OK**, the size information is copied to the selected paper in the **Selected Paper** list on the **Paper Selection** tab. Click **Millimeter** or **Inch** to switch the **Unit** of dimensions displayed on the screen.

* Be sure to designate values such that the height is equal to or greater than the width.

■ Page Setup Tab

Specifies paper size, scaling, number of copies, orientation, and pages per sheet.



Default settings depend on the country/region of purchase.

Page Size lets you select the paper size you are working with in your application. (A3, B4(JIS), A4, B5(JIS), A5, Letter, Legal, Executive, Statement, Envelope DL, Envelope #10, Envelope C5, Envelope Monarch, and three custom paper sizes.)

Output Size lets you select the paper size to print on. If your output size is set to anything other than **Match Page Size**, the image will be automatically reduced or enlarged to fit on the page.

Copies lets you specify the number of copies to be printed (1 to 999).

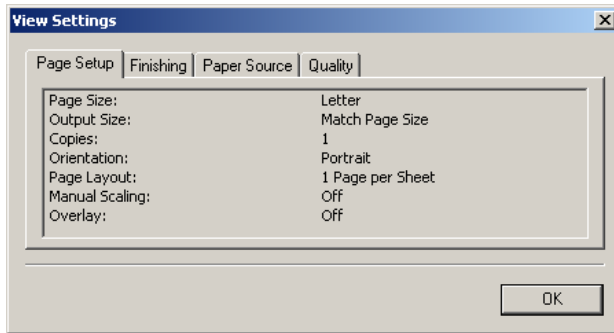
Orientation lets you select the direction of printing relative to the printer's paper (Portrait (vertical) or Landscape (horizontal)).

Page Layout lets you select the number of pages per sheet (1, 2, 4, 8, 9). If you select more than 1, the image may be reduced to fit on the selected output size. When 2, 4, 8, or 9 pages per sheet is selected, **Manual Scaling** disappears and **Page Order** appears in its place.

Manual Scaling lets you shrink or enlarge images. This option only appears when **1 Page per Sheet** is selected as the **Page Layout**. Check the check box to set a reduction or enlargement percentage (10 to 200).

View Settings

To get a quick view of your current settings, click **View Settings**, which is located on the **Page Setup**, **Finishing**, **Paper Source**, and **Quality** tabs. Click on the tabs in the **View Settings** dialog box to view the settings for each tab.



Overlay

Overlay Printing allows you to overlay the document created in any Windows application onto a preselected form file.

For example, if there is a form file containing a company name, logo, or address, it will be printed in the same position on each page of the document together with the print data created in an application.

You can easily create perfectly formatted documents with the same appearance from any Windows application.

Overlay Form File Formats

For overlay forms you can use files in the following formats:

- Windows Metafile (WMF)
- Windows Bitmap (BMP)

Creating an Overlay Form File

Before using Overlay Printing, you need to create an overlay form file in an application. To create a form file, you can use applications from the Windows NT/2000/XP/Server 2003 package and from commercially available software.

- Windows Metafile (WMF)

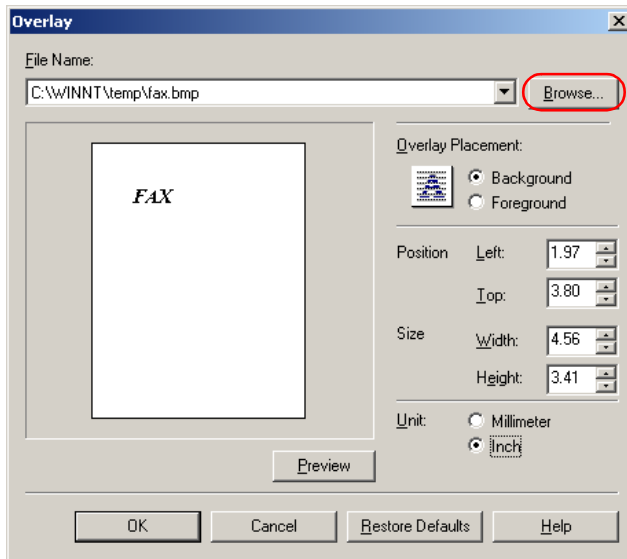
Windows metafile format is used in most commercially available draw applications. Create the form data and save it in the metafile format.

- Windows Bitmap (BMP)

You can easily create a form file in this format using software included in the Windows NT/2000/XP/Server 2003 package, such as Paint. Windows NT/2000/XP/Server 2003 desktop wallpapers are also created in this format. There are also a number of commercially available software products, (e.g. Corel PhotoPaint), that use this format. Create the form data using such software and save it as a BMP file.

Setting Overlay

To make settings for overlay printing click **Overlay** on the **Page Setup** tab. The **Overlay** dialog box appears. Use **Browse** to select the file that contains the overlay data.



File Name sets the file name to use as the overlay form.

The **File Name** dropdown list stores up to nine file names in addition to the default (none) setting.

You can use **Browse** to select the file that contains the overlay data.

Overlay Placement

- **Background**—Check this radio button on to place the overlay data in back of (beneath) the application data.
- **Foreground**—Check this radio button on to place the overlay data in front of (over) the application data.

Position lets you specify the position of the overlay based on its distance from the paper's left and top edges. Select units of measurement for **Left** and **Top** using the **Millimeter** or **Inch** radio buttons. The valid values interval for this setting is 0 to 16.5 inches (0 to 420 mm).

Size lets you set the size of the overlay. Select units of measurement for **Width** and **Height** using the **Millimeter** or **Inch** radio buttons. The valid values interval for this setting is 0 to 16.5 inches (0 to 420 mm).

Unit lets you set units of measurement using the **Millimeter** or **Inch** radio buttons.

Restore Defaults resets **Left**, **Top**, **Width**, and **Height** to their default values.

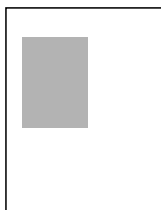
Confirm the settings → click **OK**. The **Page Setup** dialog box appears again.

Overlay Placement

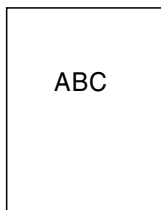
Print results may differ depending on the placement of the overlay and application print data (**Background/Foreground**). When the overlay and application print data (original data) overlap, the print result may differ depending on the overlay file format and the application being used. Settings for overlay printing on your machine allow you to place the overlay form in the foreground (in front) or in the background (in back) of the application print data.

Original data

Overlay

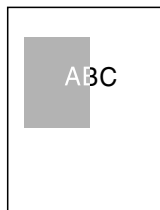
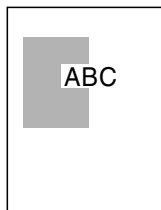
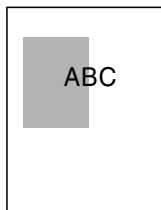


Application



[Overlay Placement: Background]

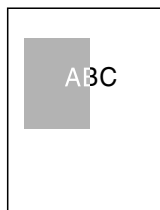
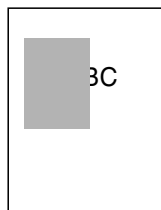
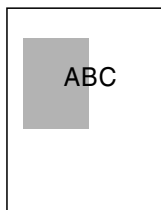
The result will appear similar to one of those shown below.



[Overlay Placement: Foreground]

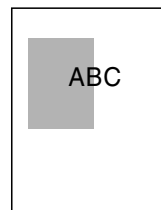
Using Windows Metafile

The result will appear similar to one of those shown below.



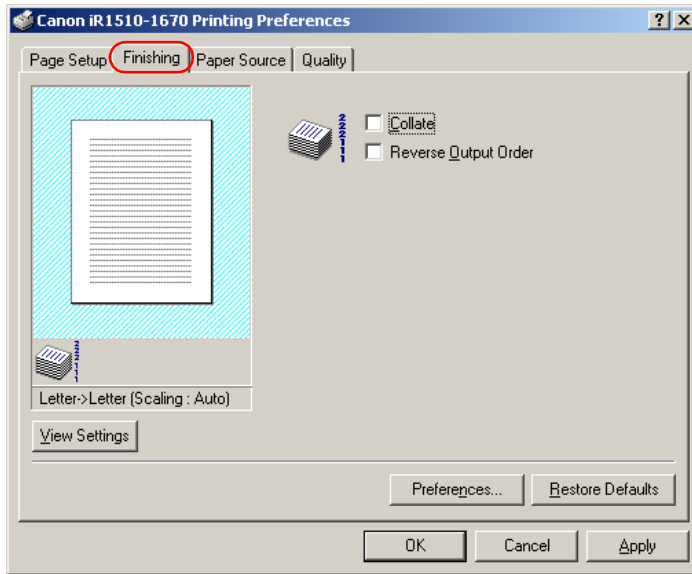
Using Windows BMP

The result will always be as shown below.



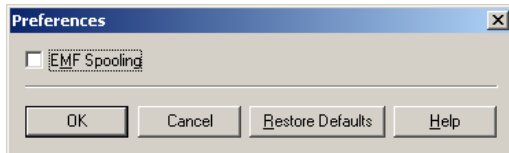
■ Finishing Tab

Specifies how the final output is collated and sets whether pages should be printed in reverse output order. Select the appropriate check boxes to collate the document or print it in reverse output order.



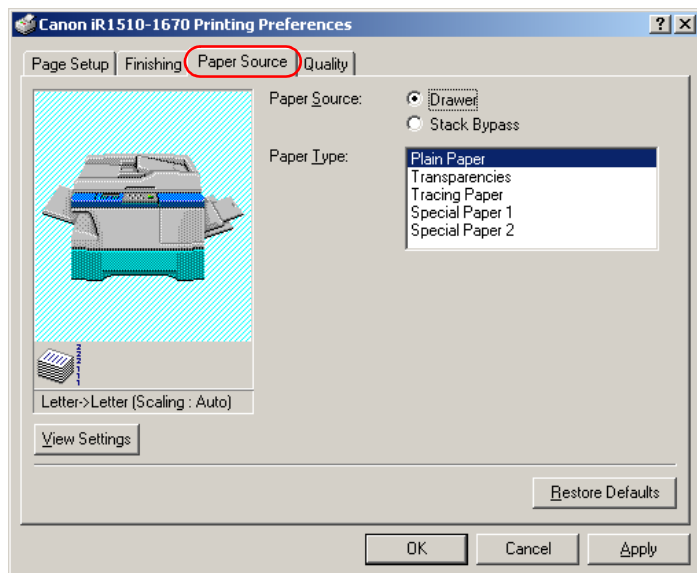
Preferences

Clicking **Preferences** on the **Finishing** tab window opens the **Preferences** dialog box. Selecting the checkbox turns EMF Spooling on. If the box is not checked, EMF Spooling is off. This setting is off by default.



■ Paper Source Tab

Specifies the paper source and paper type settings.



Paper Source lets you specify the paper feed method. Select from **Drawer** or **Stack Bypass**.

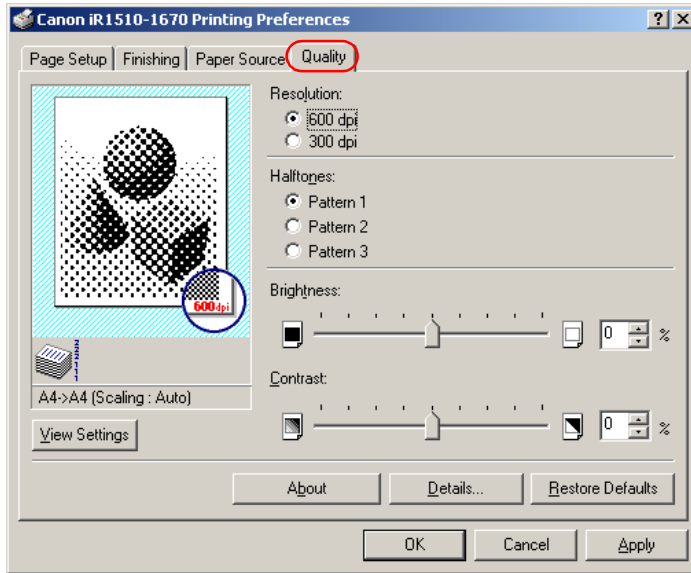
Paper Type lets you select from the following types of paper:

- **Plain Paper** (including colored paper, recycled paper: 64-80 g/m²)
- **Transparencies***
- **Tracing Paper*** (tracing paper, thin paper: 52-63 g/m²)
- **Special Paper 1*** (thick paper)
- **Special Paper 2*** (postcards, envelopes: 81-128 g/m²)

* When **Paper Source** is set to **Drawer**, please do not select paper types other than **Plain Paper**.

■ Quality Tab

Specifies the resolution, halftoning method, brightness, and contrast settings.

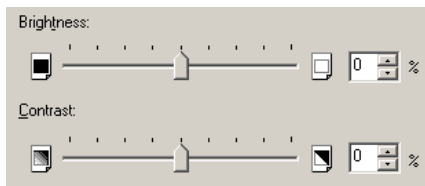


Resolution lets you specify the printer's resolution in dots per inch (600 dpi, 300 dpi).

Halftones is the process of converting a grayscale image to black dots and white (unprinted) dots that simulate the gray shades in the original image. Different halftone patterns give different gray shade results.

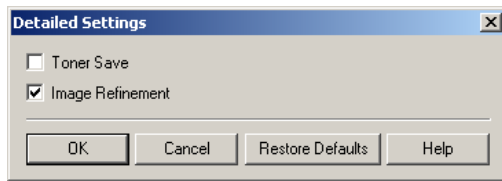
Brightness is the relative proportion of light and dark areas. Decreasing brightness darkens the overall image; increasing brightness lightens it. Brightness is expressed as a relative range from -80% to +80%.

Contrast is the degree of difference between the lightest and darkest areas of an image. Decreasing contrast lightens the dark areas and darkens the light areas; increasing it darkens the dark areas and lightens the light areas. Contrast is expressed as a relative range from -80% to +80%.



Detailed Settings

Details accesses the settings for Toner Save and Image Refinement.



Toner Save thins the black areas of print data so toner consumption is reduced.

Image Refinement is a printer technology from Canon which automatically senses and refines the jagged edges and ragged curves of characters and graphics.

Checking the Status of a Print Job

This chapter describes how to check the status of print jobs.

Opening the Status Window	4-2
Using the Canon iR1510-1670 Status Window.....	4-3
Network Printer Status	4-12
The Status Window Icon	4-13
Closing the Status Window	4-13
Messages	4-13

You can track and control your print jobs using either of the following methods:

- The **Canon iR1510-1670** Status Window
Tells you exactly what is happening with the current print job.
- The Windows **Printers** (in Windows XP/Server 2003, **Printers and Faxes**) folder
Helps you control and manage all print jobs in a queue for all printers installed in Windows.

Opening the Status Window

The **Canon iR1510-1670** Status Window opens automatically in the following situations:

- When you print a document, if **While Printing** is selected for **Display Printer Status Window** in the **Option Settings** dialog box of the Status Window.
- When an error occurs or user action is required.
- When Windows starts, if the Status Window was open the last time Windows was closed.

You can also open the Status Window by clicking the Status Window icon in the Windows taskbar and selecting the **Canon iR1510-1670**. If the icon is not displayed in the taskbar, click **Start** on the Windows task bar, select **Program → Canon iR1510-1670 → Canon iR 1510-1670 Status Window** and then the icon is displayed in the taskbar.

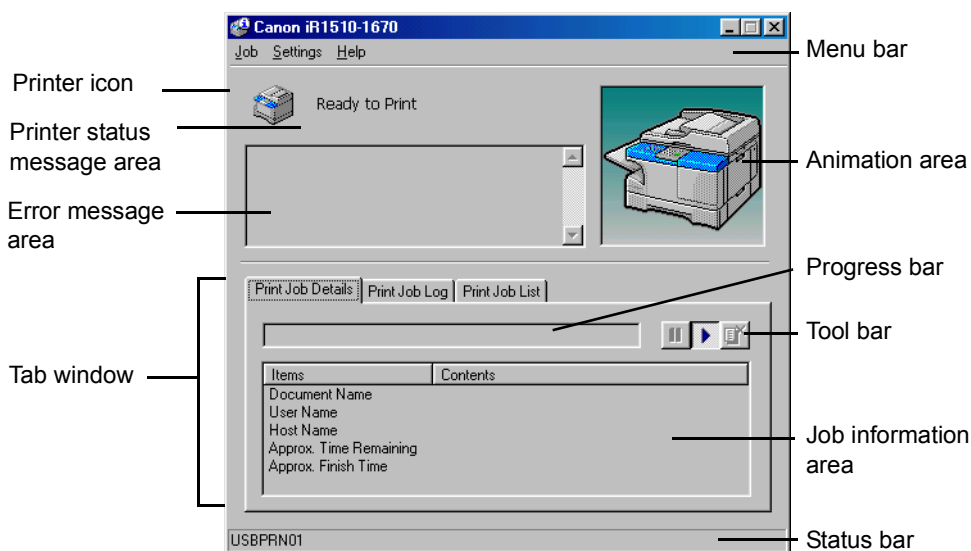
Status Window icon



If multiple imageRUNNER 1670F/1630/1610 machines are connected, select a printer from the list. The Status Window opens and displays information for the selected printer.

Using the Canon iR1510-1670 Status Window

The Status Window is a program used to display the status of jobs and perform printer operations.

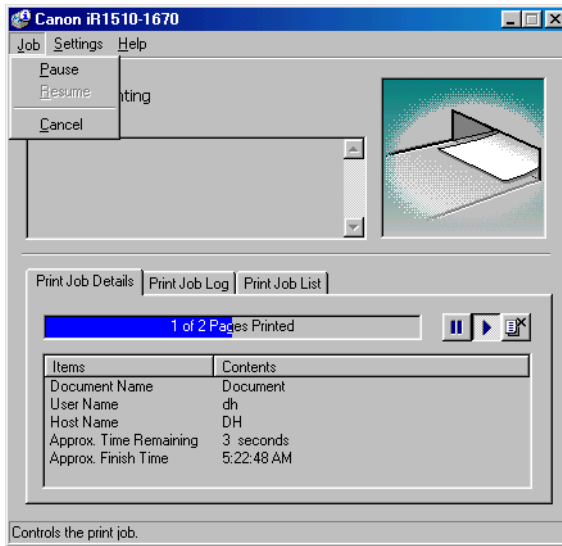


Window area	Description
Menu bar	Contains menu options to control the Status Window and the printer.
Printer icon	Displays the current printing status and error conditions.
Printer status message area	Displays the current status of the printer.
Error message area	Gives a description of situations requiring action.
Animation area	Shows an animated graphic indicating the current printer status. The graphic background changes from blue (normal) to orange when user action is required, or to red when a warning is issued.
Progress bar	Indicates the progress of the current job.
Tool bar	Use to pause, delete, or resume printing.
Job information area	Displays information related to print jobs. The type of information displayed changes with the selected tab.
Status bar	Displays the name of the printer port and describes menu options as you move your mouse over them.

■ Using the Menu Bar

Job Menu

You can select the **Job** menu from the menu bar of the **Canon iR1510-1670** Status Window:

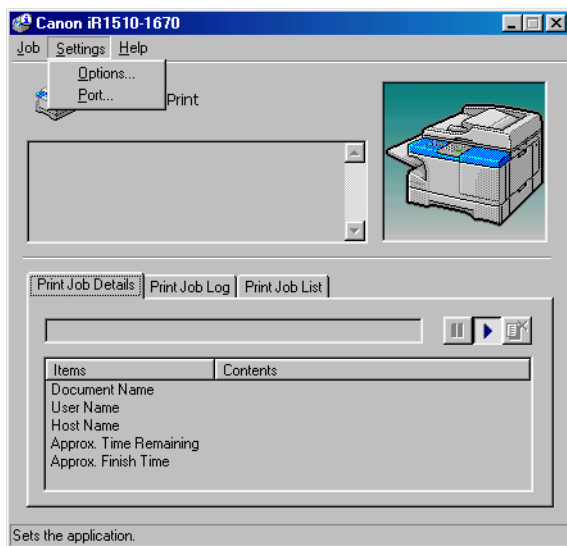


The **Job** menu includes the following options:

- **Pause** temporarily halts printing of the current document. After the current page completes printing, the printer pauses until you select Resume.
- **Resume** resumes printing with the next page of the document you paused.
- **Cancel** cancels printing of the document currently being printed.

Settings Menu

You can select the **Settings** menu from the menu bar of the **Canon iR1510-1670** Status Window:

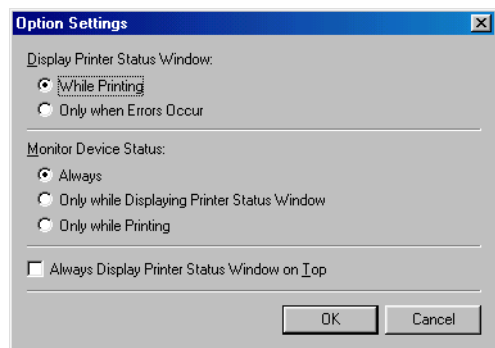


The **Settings** menu includes the following selections:

- **Options** opens the **Option Settings** dialog box that lets you change the settings for the Status Window.
- **Port** opens the **Port Setting** dialog box when the printer is connected to a local parallel port. This setting is unavailable if the printer is not connected to a local parallel port, or while printing is in progress.

Option Settings

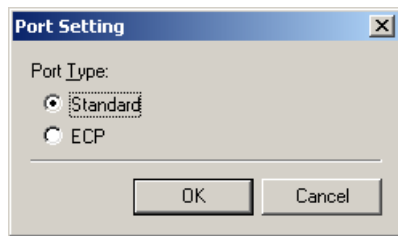
This dialog box lets you define when and how you want the **Canon iR1510-1670** Status Window to display.



- **Display Printer Status Window** lets you select when the Status Window displays.
- **While Printing**—The Status Window opens automatically each time you print.
- **Only when Errors Occur**—The Status Window opens only when an error occurs. To manually open the Status Window, click the Status Window icon in the Windows taskbar → click the **Canon iR1510-1670**. You can change display options even as a document prints, but the changed settings do not take effect until the next print job.
- **Monitor Device Status** lets you select when the Status Window is active.
- **Always**—The Status Window continually monitors the printer.
- **Only while Displaying Printer Status Window**—The Status Window monitors the printer only when the Printer Status Window is displayed.
- **Only while Printing**—The Status Window monitors the printer only when printing a job.
- **Always Display Printer Status Window on Top** places the Status Window on top of all windows on the desktop.

Port Setting

This dialog box lets you define how your computer communicates with your printer using the parallel port. The type of port you have depends on your computer.

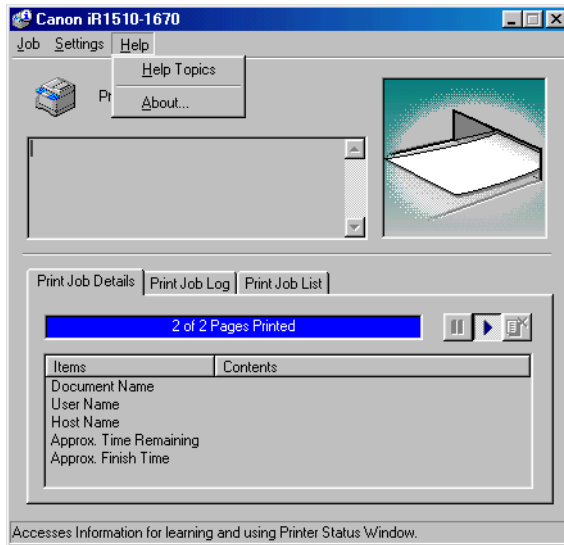


- **Standard** uses the parallel port as a standard parallel port.
- **ECP** uses the parallel port as an ECP (Enhanced Capabilities port) parallel port.

Before you make any changes, check the manual that came with your computer to determine what type of port you have.

■ Using the Help Menu

You can select the **Help** menu from the menu bar of the **Canon iR1510-1670** Status Window:



- **Help Topics** displays the search window for help topics.
- **About** displays the Status Window version information.

■ Using the Toolbar

The toolbar has three buttons that you can use to pause, resume, or delete the current print job.



Pause: Temporarily halts printing the current document. The current page finishes printing.



Resume: Continues printing after a pause. Printing restarts with the next page of the document you paused.



Cancel: Cancels the current print job. If you are printing several documents, CAPT continues to the next print job in the queue and displays the status of that print job. To cancel all print jobs in the queue simultaneously, choose **Settings** from the **Start** menu → select the **Printers** folder (in Windows XP/Server 2003, select **Printers and Faxes** from the **Start** menu) → double-click the **Canon iR1510-1670** icon to display the **Canon iR1510-1670** dialog box. Select all of the jobs and delete them.

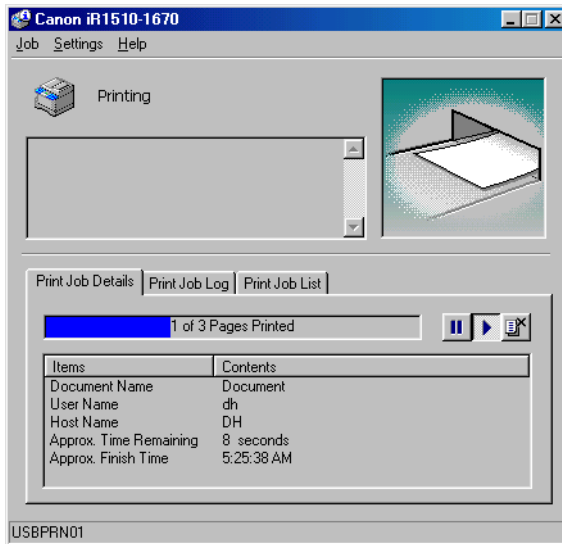


NOTE

When the **Print Job List** tab is selected, none of the buttons are active.

■ Using the Tab Window

Print Job Details

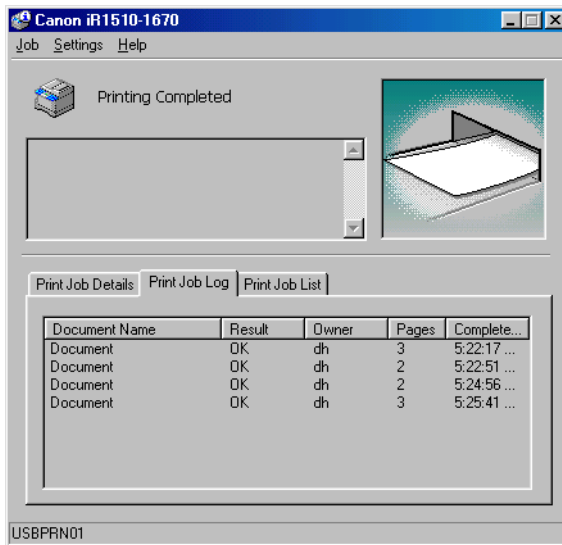


This tab shows information related to the job that is currently printing. The following types of information are displayed:

- Document Name
- User Name
- Host Name
- Approx. Time Remaining
- Approx. Finish Time

Some of this information may not be displayed, depending on the printer status.

Print Job Log

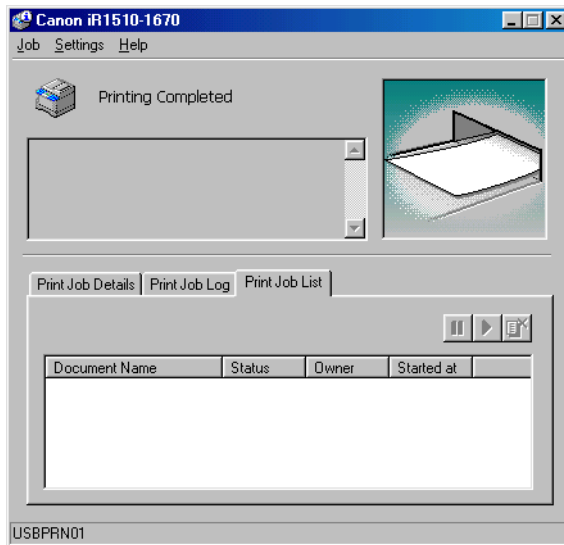


This tab shows information related to jobs that are completed. The following types of information are displayed:

- Document Name
- Result
- Owner
- Pages
- Complete Time

The job history displayed in the job information area can list a history of up to the most recent 100 jobs. The job logs list clears whenever you terminate the Status Window.

Print Job List



This tab shows information related to the jobs that have not yet started.

- Document Name
- Status
- Owner
- Started at

Network Printer Status

Viewing the print status

The status of a network printer can be viewed on the print server as well as the client.

For the job status to be displayed in the client's Status Window, the print server's Status Window must be running.

If the status option **While Printing** has been selected for **Display Printer Status Window** in the **Option Settings** dialog box of the Status Window on the client, the client's Status Window opens automatically once printing from the server starts.

If an error occurs on the server, the client's Status Window for that job opens automatically.

If the client's Status Window opens automatically, it closes automatically when printing completes or the error is cancelled, unless the user interacts with the window or its menus.

Performing print job operations

Print job operations (pause, resume, cancel) may be performed from either the print server or the client for the job. After a client performs a print operation, no other operations are allowed until the server confirms that the operation has been accepted.

Print job operations cannot be selected on any other screen except the print server or client for the job.

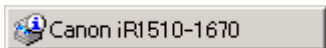
If the print server's Status Window is not running, you cannot perform job operations on the client. The client's Status Window displays the message **Check Print Server**.

The Status Window Icon

If you minimize the Status Window, you can still see the printer status displayed as an icon on the taskbar. To open the Status Window, simply click on the taskbar button. Icons also appear in the Status Window. The table below shows the Status Window icon and the taskbar icon.



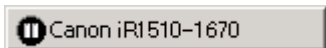
Printer Ready



Indicates that the printer is ready to print.



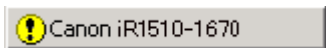
Printing Paused



Indicates that printing has paused.



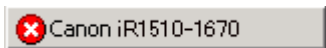
Attention Required



When the Status Window displays an alert, the window automatically opens to its full size. You can minimize the window again, but you will not be able to resume printing until you take the action specified in the full-size window.



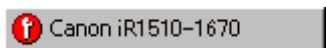
Warning



An error has occurred and the printer may require service. You may have to contact your local authorized Canon service representative.



Abnormal Condition



Something is wrong with the printer or one of its connections. You will not be able to print until the problem is fixed.

Closing the Status Window

Click the close button to close the window, just as you would close any other window.

If the Status Window opens automatically due to printing, or due to an error, the window automatically closes when printing completes or the error status clears.

Messages

CAPT gives you information about your print job and the printer itself.



Troubleshooting

5

CHAPTER

This chapter includes information to help you solve printer problems. A problem might have one or a combination of causes, such as a computer malfunction, software errors, printer cable or other printer problems. Many printing problems are related to how your software interacts with the printer.

If you can print a self test but the printer does not print other jobs, or your printed output is not what you expected, the problem is with your computer, software, or cables.

If your printer is not operating properly, try the suggestions in this chapter in the order listed.

Finding Information	5-1
Printer Problems	5-2
CAPT Problems	5-4
CAPT Messages	5-6
Using the Trouble Shooter	5-9
Uninstalling CAPT	5-11

Finding Information

Problem	See page
Printer Problems	5-2
CAPT Problems	5-4
CAPT Messages	5-6
Using the Trouble Shooter	5-9
Uninstalling CAPT	5-11

If you have a problem with your printer and you cannot resolve it by referring to the information in this chapter, please refer to the *Reference Guide*.

Printer Problems

Problem	Cause	Solution
Printer does not print	The printer is out of paper.	Make sure that paper is loaded.
	A copy job has not been completed due to the Out of Paper status.	Load paper. The print job will start automatically when the copy job is completed.
	Print jobs are stalled.	Check the Canon iR1510-1670 Status Window for stalled jobs.
	The cartridge is not installed correctly.	Check that the cartridge is installed correctly. → <i>Quick Start Guide</i>
	Your BIOS port setting needs to be modified.	See your computer's documentation concerning available ports.
	The parallel cable is not compatible.	Make sure that you are using an 8-bit, Centronics-compatible, parallel interface cable with bidirectional capability.
	Your computer is not working properly.	Check your computer, make sure that it is turned on and working properly.
No power is supplied	The power cord is not plugged in.	Make sure that the power cord is securely plugged into both the machine and the AC outlet.
	The AC outlet is not supplying power.	Make sure that the AC outlet is supplying power; try another outlet if necessary.
	The AC voltage does not match the printer.	Make sure that the voltage of the AC outlet matches the ratings on the printer.
Printer stops printing	The interface cable is loose.	Check your computer and your cable.
	If you are working on an application in the foreground, printing performance might slow down.	Printer performance improves if you give your print job priority.

Problem	Cause	Solution
Printout is wrong	There is a communications problem between the printer and your computer.	<ul style="list-style-type: none"> - Make sure that your cable connections are secure. - Make sure that your parallel interface cable is less than 9.9 feet (3.0 m) or USB interface cable is less than 16.5 feet (5.0 m) long. - Make sure that you are not using a switch box. - Check that you have selected the correct printer driver in Windows.
	The wrong printer is selected in the Printers folder.	Make sure that the Canon iR1510-1670 is selected in the Printers (in Windows XP/Server 2003, Printers and Faxes) folder.
	You might need to modify your BIOS setup.	See your computer's documentation for details. Try changing the parallel port mode or the parallel port address to see if this solves the problem.
Printer locks up system	Your system setup has a problem.	<ul style="list-style-type: none"> - Verify that you have a high-quality shielded interface cable. - The problem might be your BIOS. Verify that your BIOS setup is correct. (See your computer's documentation for details.) - Verify that your physical memory is working correctly. - If you have a Toshiba laptop, change this line in your CONFIG.SYS file: c:\winutils\mxtime.exe to: REM c:\winutils\mxtime.exe
Computer indicates a device time-out	Your computer is sending data to the printer but the printer is not responding. The printer might be off, offline, or not connected to the computer.	<ul style="list-style-type: none"> - Make sure that the printer is not paused. - Check that the printer's interface cable is securely connected to both the printer and the computer. - Make sure that paper is properly loaded in the paper source. - Reset the printer and computer. - Try the print operation again. - Try a different cable.

CAPT Problems

Problem	Cause	Solution
CAPT is not working properly	The CAPT (Canon iR1510-1670) driver is not selected as the default printer driver for imageRUNNER 1670F/1630/1610.	Specify the CAPT (Canon iR1510-1670) driver as the default driver for the imageRUNNER 1670F/1630/1610.
	The software is not installed properly.	Refer to “Using the Trouble Shooter,” on page 5-9. To check if CAPT is installed correctly, try printing a page from an application. If the print fails, CAPT is not installed correctly. Uninstall CAPT and install it again. For more information, see “Uninstalling CAPT,” on page 5-11.
Cannot use Adobe Type Manager (ATM) fonts		Adobe Type Manager (ATM) is not supported.
Cannot print with a printer driver other than Canon iR1510-1670	The printer driver is connected to the same port as the Canon iR1510-1670 printer driver.	Connect the printer driver to a port different from the Canon iR1510-1670 printer driver.
CD-ROM Menu doesn't appear automatically	Autorun CD-ROM Menu checkbox is unchecked in the CD-ROM menu.	Start the CD-ROM menu manually, and check the Autorun CD-ROM Menu checkbox.
	The Auto insert notification checkbox is unchecked.	From the Device Manager make sure that the Auto insert notification checkbox is checked in the CD-ROM drive Properties dialog box. For more information, see Windows Help.

Problem	Cause	Solution
“File not found on CD-ROM” error when starting the CD-ROM Menu.	The program is loaded from the hard disk drive.	Delete the CDMENU.EXE file from your hard disk drive and restart the CD-ROM Menu program from the compact disc labeled “User Software.”
Cannot install CAPT using a USB port. (Windows 98/Me/2000/XP/Server 2003)	USB class driver is not properly installed.	<p>Perform the following steps.</p> <ol style="list-style-type: none"> 1) Make sure the printer is connected to your computer using a USB cable and the printer is turned on. 2) For Windows 98/Me/2000, open the System dialog box from the Control Panel. For Windows XP*/Server 2003, click Performance and Maintenance in the Control Panel → click See basic information about your computer in the Performance and Maintenance folder. The System Properties dialog box appears. 3) For Windows 98/Me, select the Device Manager tab → double-click Universal Serial Bus controllers. For Windows 2000/XP/Server 2003, select the Hardware tab → click Device Manager → double-click Universal Serial Bus controllers. 4) Locate the USB class driver under Universal Serial Bus controllers. Delete ONLY the USB class driver specified for your operating system. (If the USB class driver is displayed under Other devices, delete ONLY one of the following, depending on your operating system: Canon iR1510-1670, Canon CAPT USB Printer, or Unknown.) For Windows 98, select Canon iR1510-1670 → click Delete. For Windows Me, select Canon CAPT USB Printer → click Delete. For Windows 2000/XP/Server 2003, select USB Printing Support or Canon CAPT USB Printer → uninstall from the Action menu. 5) Close the Control Panel and unplug the USB cable. 6) Restart Windows.

* The procedure for Windows XP is given for Category View Mode.



IMPORTANT

Never delete other devices or device drivers. Windows may not operate properly.

CAPT Messages

CAPT displays the status of your printing environment and current print job in the Status Window.

Alerts

Alerts identify problems that must be corrected before printing can continue. Sometimes messages inform you to do something, such as clear jammed paper. In other cases, alerts tell you what is wrong and how to fix it.

Message	Action
Out of paper	Load paper. The Status Window displays Ready to Print automatically.
The Drawer is Out of Paper	Load paper. Printing starts automatically.
The Stack Bypass is Out of Paper	Load paper. Printing starts automatically.
Paper Jam	<p>1) Paper has jammed in the printer while printing. Follow the instructions on the LCD screen of the machine, or refer to the <i>Reference Guide</i> for more information. Printing resumes automatically when the paper jam is fixed.</p> <p>2) The right cover was left open or the toner cartridge was not properly replaced after clearing a paper jam. Close the cover securely. → <i>Reference Guide</i></p>
Incorrect Paper Size	<p>The size of the document is incompatible with that of the paper in the paper drawer.</p> <p>Check the size of paper in the paper drawer and load the correct size paper, if necessary.</p>
The Platen or the Toner Supply Cover is Open	<p>The platen unit or toner supply cover is open.</p> <p>Close the platen unit or toner supply cover securely.</p>
Toner Cartridge or Drum Not Loaded	<p>There is no toner cartridge or drum cartridge in the printer.</p> <p>Install the toner cartridge or drum cartridge. → <i>Reference Guide</i></p>
Toner Empty	<p>The toner in the toner cartridge is low.</p> <p>Replace the toner cartridge with a new one. → <i>Reference Guide</i></p>
Waste Toner Tank Full	<p>The drum unit is full of waste toner.</p> <p>Replace the drum unit with a new one.</p>

Message	Action
Toner Empty/Waste Toner Tank Full	The toner in the toner cartridge is low, and the drum unit is full of waste toner. Replace the toner cartridge or the drum unit with a new one.
Insufficient Memory	The print job was too complex for available memory. Discard the last printed page, and try one or more of the following: <ul style="list-style-type: none">• Close other applications while printing this job.• Print the job in smaller sections.• Try reprinting the job with a lower resolution, such as 300 dpi.• Reformat the most complicated pages in the print job to reduce graphics and other complex formatting.
Communication error	Your computer and printer are not communicating. This happens if the printer power shuts off, the cable is disconnected, or the cable is not bidirectional.
Printer Error	CAPT has detected an internal device error. <ol style="list-style-type: none">1 Unplug the machine.2 Plug the machine in again.3 If the same error occurs, unplug the machine again and plug it back in.4 If the error persists, contact your local authorized Canon service representative. → <i>Reference Guide</i>
Device Busy	The device is being used by another job. Please wait until the job is finished.
Port Busy	The printer port is being used by other equipment.
Printing Temporarily Stopped	Your computer could not transfer the data to the device due to the large amount of data, or a data transfer error occurred. Click Resume to resume printing.
Waiting to Print	The current job has been interrupted by another job. Please wait until the job is finished. Printing will begin automatically.
Energy Saver Mode	The printer is in the energy saver mode.
Incompatible Device	The connected device cannot be used. Make sure that the device connected to the specified port is compatible and connected correctly.

Message	Action
Fixing Unit Error	Unplug the machine, and then wait about 10 minutes before you plug the machine in again. If the same error occurs, unplug the machine again. Contact your local authorized Canon service representative.

Using the Trouble Shooter

The Trouble Shooter is a utility for solving printing problems in Windows 95/98/Me or NT/2000/XP/Server 2003. The Trouble Shooter checks for system configuration setting errors, and if possible, makes automatic corrections.

The Trouble Shooter does not detect problems related to hardware, such as printer cable problems, parallel port failure, or ECP setting errors.

To start the Trouble Shooter, select the **Canon iR1510-1670 Trouble Shooter** icon in the **Canon iR1510-1670** group. The Trouble Shooter checks the following and corrects related problems:

- Free disk space in the drive containing the Windows directory.
- Installed files
- Selected printer port (checks to see if usable)
- Registries
- RapidPort communication device drivers (Windows NT/2000/XP/Server 2003)
- Language monitor
- Printer drivers
- Status Window
- **Printer Properties** settings
- **Canon iR1510-1670** program folder

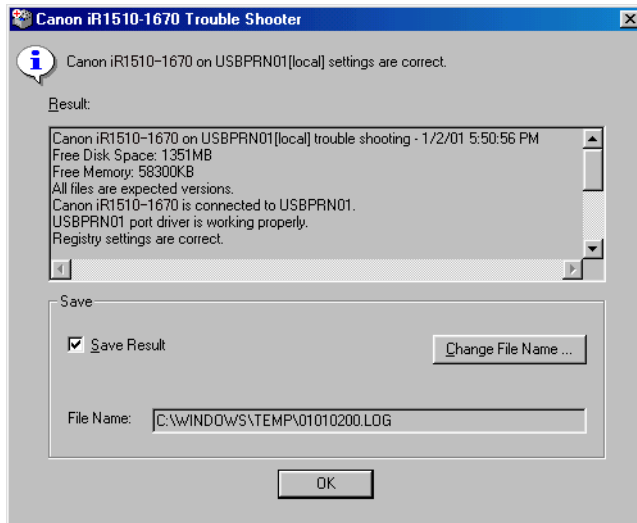
If the Trouble Shooter encounters a problem, it displays an error message. Each message includes several options, such as:

- How to correct the problem
- If the problem cannot be corrected by the Trouble Shooter
- Continue troubleshooting
- Exit Trouble Shooter
- Display help information

If Trouble Shooter is used on a network printer client, it performs network-related checks.

The Windows NT/2000/XP/Server 2003 Trouble Shooter checks whether Spooler service has started, and if not, it displays a dialog box.

Trouble Shooter checks whether system settings were done correctly.
If any incorrect setting is found, it is corrected automatically, if possible.



Trouble Shooter prompts you to choose whether you want to save the results as a text file. Check the **Save Result** checkbox and enter the desired filename. The file saves with the extension of **.LOG**.

When you click **OK** in the above dialog box, the Windows Restart dialog box may appear. If the Windows Restart dialog box is displayed, you must restart Windows.



IMPORTANT

To run Trouble Shooter for the Canon iR1510-1670 on the network, both the server and the client must run on the same operating system.

Uninstalling CAPT

If CAPT is not working properly, it might help to remove it and install it again. Before you begin, be sure you have the installation software available for installation.

Before uninstalling CAPT, make sure you close all running applications.

To uninstall:

- 1** Click **Start** → point to **Programs** (in Windows XP/Server 2003, **All Programs**).
- 2** Point to **Canon iR1510-1670**.
- 3** Click **Canon iR1510-1670 Uninstallation**.
- 4** Follow the on-screen instructions.
- 5** Windows 95/98/Me: Click **OK** and your system restarts.
Windows NT/2000/XP/Server 2003: Click **OK** (recommended) to restart your system.



In Windows NT/2000/XP/Server 2003, you cannot uninstall the Canon Advanced Printing Technology unless you have Administrative privileges.



Appendix

6

CHAPTER

The appendix includes printer specifications, optional network adapter information, the glossary, and the index.

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Printer Specifications

Hardware

Printing speed:	16 pages per minute (LTR paper)
Resolution:	600 dpi
Paper sizes:	
Paper drawer:	LTR/LGL Plain paper, colored paper, recycled paper Maximum capacity: 500 sheets (80 g/m ² paper)
Stack Bypass:	3 x 5 inches to 8-1/2 x 14 inches (76.2 x 127 mm to 215.9 x 355.6 mm) Plain paper, colored paper, recycled paper, transparencies, tracing paper, thick paper, labels, envelopes, postcards Maximum capacity: 100 sheets (80 g/m ² paper), stack approx. 3/8 inches (10 mm) high
Paper delivery:	100 sheets (80 g/m ² paper)
Host interface:	Bidirectional Centronics parallel cable (IEEE1284 based) interface USB interface

Software

Printing software:	CAPT (Canon Advanced Printing Technology)
Valid printing area:	1/4 inches (5 mm) top, bottom, left, and right blank margins.

Optional AXIS 1610 Print Server

The optional network adapter, the AXIS 1610 Print Server, enables the imageRUNNER 1670F/1630/1610 to be used as a printer directly connected to a network.



NOTE

- For more information, refer to the AXIS 1610 user's manual provided on the CD with the AXIS 1610 Print Server.
- To purchase the AXIS 1610 Print Server, contact your local authorized Canon dealer.
- To use the optional AXIS 1610 Print Server, the customer should use the NetSpot Device Installer and AXIS Print Monitor in order to connect the image RUNNER 1670/1630/1610 to a network.
- The NetSpot Device Installer software can be found on the NetSpot Device Installer CD, which is bundled in the box with the imageRUNNER 1670F/1630/1610.
- The AXIS 1610 Print Monitor software can be found on the CD included with the AXIS 1610 Print Server.
- CANON USA and CANON's dealerships do not recommend or support the use of the AXIS IP Installer or AXIS NetPilot software to connect the imageRUNNER 1670F/1630/1610 to a network.

Glossary

A

AC

Alternating Current. The type of electrical current typically available from household wall outlets.

Adapter

An optional device that allows you to connect your printer directly to a network. *See* Peer-to-peer connection.

Alert

A message displayed in the Printer Status Window when a problem or condition caused the Canon Advanced Printing Technology to pause printing. You must follow the on-screen instructions before printing resumes.

B

Bidirectional communications

Allows information to pass back and forth between the Canon Advanced Printing Technology software and a local printer.

Bold

A characteristic of a printed character that indicates wider, darker representation. Also referred to as emphasized or double-strike printing.

Brightness

The relative proportion of light and dark areas. Decreasing brightness darkens the overall image; increasing brightness lightens it.

C

Canon Advanced Printing Technology (CAPT)

Software that extends the power of the Windows operating system to a printer to speed up and simplify printing. Canon Advanced Printing Technology provides more printing control and bidirectional communication between the printer and a computer running a Windows application.

Centronics interface

An interface standard for parallel data transmission. This printer uses a Centronics-type parallel interface with bidirectional capability. *See* Interface port and Parallel interface.

Client

A computer that is connected to the printer over a network. A client does not control the printer directly. It interacts with the printer through a server. *See* Server.

Collate

To print multiple copies of a multi-page document in sequential page order.

Command

An instruction that tells the printer to perform a certain function. Commands are sent from the computer to the printer via the interface cable when the printer is ready.

Contrast

The degree of difference between the lightest and darkest areas of an image. Decreasing contrast lightens the dark areas and darkens the light areas; increasing it darkens the dark areas and lightens the light areas.

Control Panels

The set of Windows programs you can use to change system, hardware, software, and Windows settings.

D

Default setting

A setting that is automatically used if no other setting is specified.

Desktop

The entire Windows screen that represents your work area in Windows. Icons, windows, and the taskbar are displayed on the Windows desktop.

dpi

Dots per inch. A unit of measurement for indicating a printer's resolution. The imageRUNNER 1670F/1630/1610 prints at a resolution of 600 dpi.

Driver

A program that controls how the computer and an external device interact. The printer driver supplies Windows with information such as descriptions of the fonts and features of the installed printer. When you print with the Canon Advanced Printing Technology, you are using its printer driver.

E

ECP

Abbreviation for Extended Capabilities Port. A bidirectional communication mode that enables high-speed data transmission to printers and other devices.

F

Fixing assembly

The device used during the print process to fix the toner onto the paper (or other media) through applying heat and pressure. The assembly, located inside the printer, gets extremely hot (374°F/190°C) during operation.

Folder

A container in which documents, program files, and other folders are stored on your disks. Formerly referred to as a *directory*.

Font

A complete set of characters of the same size and style. For example, 12-point Courier bold.

Form

A custom paper size, with width and height defined by the user.

G

Grayscale image

A bitmap image that stores data for each dot as a shade of gray, rather than as black or white.

H

Halftones

The process of converting a grayscale image to black dots and white (unprinted) dots that simulate the gray shades in the original image.

I

Image Refinement

A printer technology from Canon which automatically senses and refines the jagged edges and ragged curves of characters and graphics.

Interface

The connection between two devices through which they communicate with each other. The imageRUNNER 1670F/1630/1610 machine features USB and parallel interfaces, which makes it compatible with IBM and similar personal computers.

Interface cable

The cable, with bidirectional capability, used to create the interface between a printer and a computer.

Interface port

The port through which the printer communicates with the computer. The imageRUNNER 1670F/1630/1610 has a USB port and a Centronics, 8-bit, parallel interface port, located on the side of the machine. *See* Parallel interface and USB interface.

Italic

A font style distinguished by slanted characters (the upright strokes of the characters are at an angle to the vertical axis).

J

Jam

A situation created when paper becomes caught along the paper path. You must remove jammed paper before you can continue printing.

K

Kilobyte (KB)

A unit of measurement, representing the binary number 1024, used to describe printer or computer memory size in thousand-byte units.

L

Landscape

A horizontal print orientation. Text and graphics are printed across the longer axis of the page.

Local printer

A printer that is directly connected to your computer, using a parallel or USB cable.

M

Megabyte (MB)

A unit of measurement, representing one million bytes, used to describe printer or computer memory size.

My Computer

The Windows program that you can use to browse through your computer's filing system, and to open drives, folders, and files. You can also use My Computer to manage your files and your filing system, by moving, copying, renaming, and deleting items.

N

Network

A group of computers connected by cables or other means and using software that enables them to share equipment (such as printers) and exchange information.

Network Adapter

An optional device that allows you to connect your printer directly to a network. *See* Peer-to-peer connection.

O

Orientation

The printing of text either along the width (portrait) or length (landscape) of the page.

Overlay

Refers to printing in which data that is common to all the pages, such as a logo, titles, or table structure, is overlaid with the print data from the application.

P

Paper feed

The act of guiding a sheet of paper into the printer's paper path.

Paper jam

A situation created when paper becomes caught along the paper path. You must remove jammed paper before you can continue printing.

Paper path

The route that paper travels through the printer.

Paper Source

Source of paper feed. The machine has a paper drawer and a stack bypass.

Paper Type

All kinds of paper (plain paper, colored paper, recycled paper, transparencies, tracing paper, thick paper, labels, envelopes, postcards etc.) are grouped under several Paper Types. You can access this setting from the **Paper Type** field on the **Paper Source** tab of the **Printer Properties** dialog box.

Parallel interface

An interface that transmits multiple bits simultaneously (usually in one-byte segments). Your printer has a built-in, Centronics-type parallel interface. *See* Centronics interface.

Parallel interface cable

A bidirectional cable, usually less than six feet long, that transfers multiple bits of information to the printer simultaneously, speeding the transfer. Parallel interface cables are also referred to as Centronics interface cables.

PDF

Portable Document Format. A widely used format for transmitting and viewing documents on computers. PDF documents can be read or printed out with Adobe's Acrobat Reader program.

Peer-to-peer connection

A network connection between a computer and a printer (or other device) that does not go through a server. *See* Server, Client.

Physical RAM

Random access memory (RAM) that is physically present in the computer in the form of memory chips, as opposed to virtual memory. *See* Virtual Memory.

Platen

The document scanning unit. Slide it aside to access internal parts of the machine for maintenance or removing paper jams.

Point size

Character height is defined in points: one point is 1/72 of an inch.

Portrait

A vertical print orientation. Text and graphics are printed across the shorter axis of the page.

Print job

A document that a Windows application has processed and sent to the Spooler to be added to the print queue or directly to the printer.

Print Monitor

The network adapter print monitor is software that prints through the network adapter.

Print queue

A list of files that are either waiting to be printed or are currently printing. Once a file has been printed, it is removed from the print queue.

Printer driver

A program that controls how the computer and printer interact. The printer driver supplies Windows with information such as descriptions of fonts and features of the installed printer. When you print with the Canon Advanced Printing Technology, you are using its printer driver.

Printers folder

The container in which your printer information is stored.

Progress bar

In the Status Window or its icon, a horizontal bar that graphically indicates the percentage of the print job that has actually printed.

Properties dialog box

The dialog box that contains information about a particular device, such as your printer.

Proportional spacing

The spacing of characters according to the width of each character. This variable spacing between each character closes up awkward space and makes text easier to read.

Q**Queue**

A list of files that are either waiting to be printed or are currently printing. Once a file has been printed, it is removed from the print queue.

R**Random Access Memory (RAM)**

The working memory of the computer in which programs and data are temporarily stored while you use them. Resetting or shutting off the computer clears all information from RAM. Printing very complicated documents might require closing other running programs or adding more RAM to the computer. *See* Physical RAM, Virtual memory.

Resolution

The density of dots for any given output device, expressed in terms of dots per inch (dpi). Low resolution causes font characters and graphics to have a jagged appearance, but prints faster than higher resolutions. Higher resolution provides smoother curves and angles as well as a better match to traditional typeface designs, but prints more slowly. This printer can produce output with 300 or 600 dpi resolution. Resolution values are represented by horizontal data and vertical data, for example, 600 x 600 dpi.

Reverse Output Order

This function allows you to print pages of the document in reverse order: from the last page to the first page.

S

Scalable fonts

Scalable fonts allow characters to be printed in various sizes and rotation angles. This is different from bitmap fonts, which are printed in fixed sizes and angles.

Scaling

Enlarging or reducing the printed image.

Separator page

Optional pages printed at the beginning of each document to help separate one print job from another.

Server

A network computer that is directly attached to the printer. The server controls the printer and handles print jobs sent from the clients. *See* Client.

Shielded

A type of cable that contains a metallic sheath over the conductor material to protect the data passing through the cable from electromagnetic interference. You need to use a double-shielded interface cable with this printer.

Spooling

A process by which an application sends a document to the Spooler, rather than directly to the printer, thus freeing the computer and application for other tasks. Spooled documents are printed in the order they are received.

Start menu

The menu that presents commands that are a starting point for all work you do on your computer, such as starting a program, opening a document, finding a file, and getting help. You open the Start menu by clicking the Start button displayed on the Desktop.

Status options

Settings which determine when the Printer Status Window opens.

Status Window

A window that the Canon Advanced Printing Technology uses to display messages about the current print job, as well as to graphically show the print job's progress from computer to printer.

T

Title bar

The horizontal bar that contains the title of a window or dialog box. On many windows, the title bar contains the Control menu box and Maximize and Minimize buttons.

Toner

A black, resin-coated powder contained in the Toner Cartridge. The printer applies the toner to the surface of the photosensitive drum inside the printer via an electrophotographic mechanism.

Toner saver

The black areas of print data are thinned so that toner consumption is reduced.

Tool bar

In the Status Window, the area in the tab window that includes buttons for pausing, resuming, and deleting the current print job.

Transfer roller

Presses the paper against the drum, to aid the transfer of toner to the paper.

Trouble Shooter

A program that helps you solve printing problems. The Trouble Shooter checks the Windows configuration settings, and if possible corrects any errors that it finds.

TrueType fonts

Scalable fonts used for both screen display and printing. TrueType fonts can be sized to any height, and print exactly as they appear on the screen, but with higher resolution.

U

Universal Serial Bus (USB) interface

A new serial interface standard which automatically recognizes connections (Plug and Play) to allow plugging and unplugging connectors with the power still turned on to the PC or peripheral equipment.

V

Virtual Memory

Space on the hard disk that Windows uses for temporary data storage as if it were actually random access memory (RAM). Windows does this by means of a swap file. This provides Windows with more usable memory, but reduces speed of access to it when the swap file must be used. *See* Physical RAM.

W

Weight

Refers to the thickness of a font: light, medium, or bold. Also refers to the thickness of paper.

Windows Explorer

The Windows program you can use to browse through, open, and manage the disk drives, folders, and files on your computer in a network system. You can also use Windows Explorer to view and open shared folders on other computers on the network. You can use Windows Explorer to manage your files by moving, copying, renaming, and deleting files.

WYSIWYG

Pronounced wizzy-wig, an acronym for “what you see is what you get.” For example, when you format a paragraph, the line breaks that appear on the printed page are exactly the same as they are on the screen.

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